

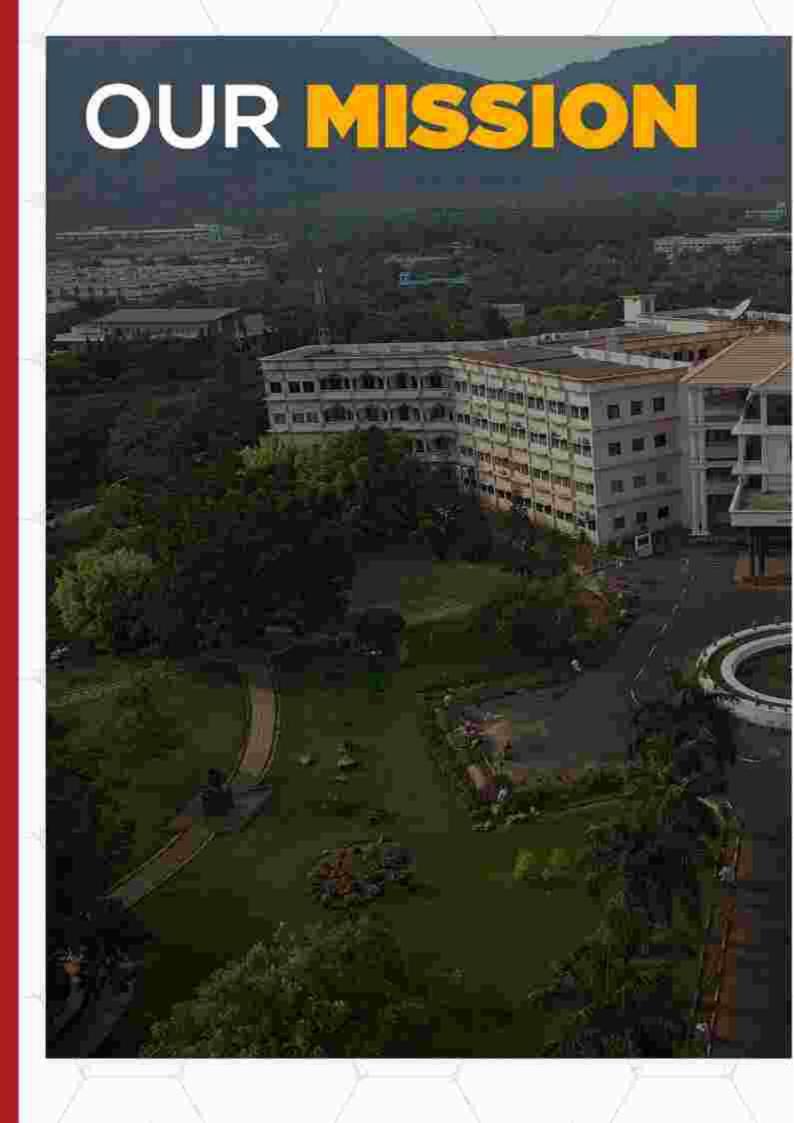
AMRITA SCHOOL OF ENGINEERING
COIMBATORE

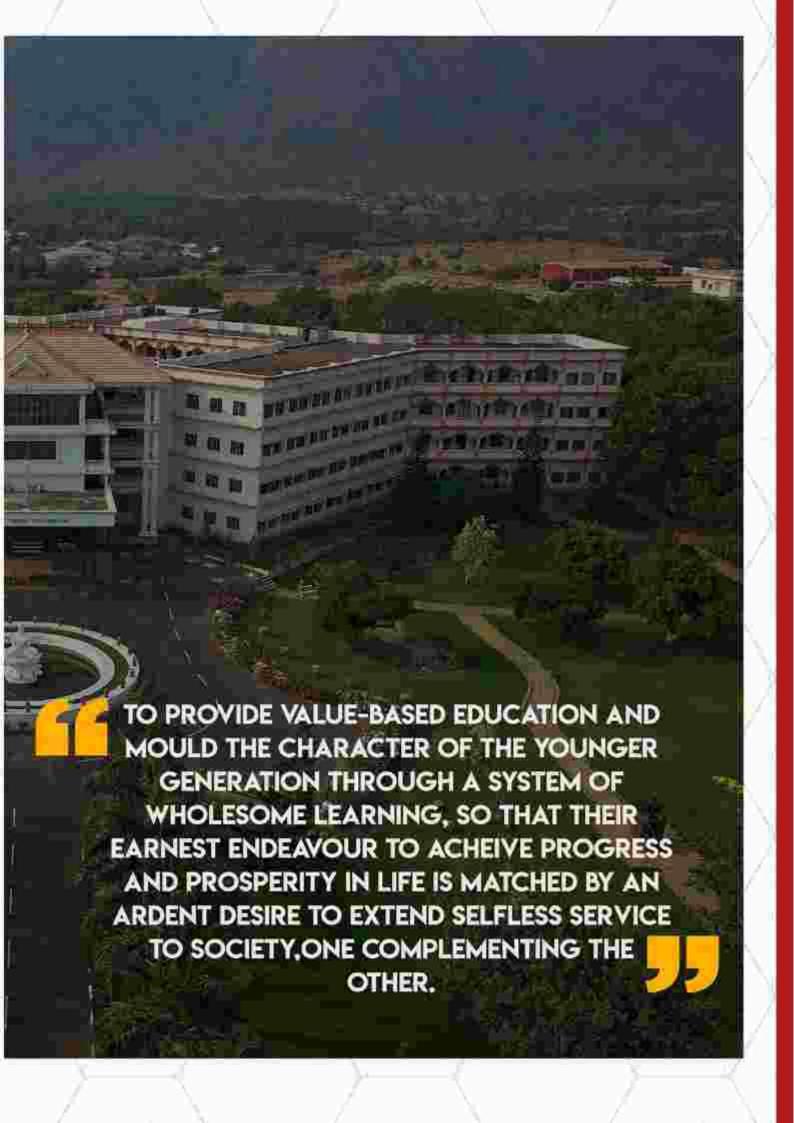


AMMA'S MESSAGE

Today, universities are ranked mainly based on the amount of funding they receive, the number of papers they publish, and their intellectual caliber. Along with this, we should take into consideration how much we have used our research to serve the lowest and most vulnerable strata of society. In our approach to sustainable development, we should not forget that it is by strengthening the people at the base of the pyramid that the entire edifice of society becomes healthy and strong.

Humanity is at crossroads. At present, mankind lives solely depending on science and technology. However, in the light of our current situation, we should at least try to incorporate spiritual thinking as well. But what is spirituality? True spirituality is compassion in action. If we could transform compassion from a mere word into a path of action, we would be able to solve 90% of the world's humanitarian problems. However, when we try to love or serve without understanding those whom we serve, we often end up harming society and ourselves. In order to make our service beneficial, it has to go hand in hand with discernment. This is the essence of sustainable development.





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The editorial team acknowledges the support extended by Ms.Ankusha B, Ms.Shobana K. and Dr. Sulagna Mohanty in editing the articles.

































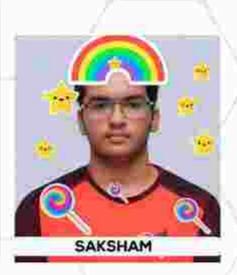
TUHINA MANDAL











SHREYA RAGHUNATH

EDIT SPEAK...

Have you ever had this feeling when you are trying really hard to write but the words just don't flow? It has happened many times to us through these four years as engineering students. Be it the beginning of a poem or the introduction to a scientific paper that you want to publish, you may feel frustrated and trapped, as though you have lost your muse. You may have been staring at a blank piece of paper or your computer screen for hours. Don't worry, you aren't alone, my friend. It has definitely happened to many when you're in an examination hall, I'm sure. Many great writers and artists like Scott Fitzgerald and Herman Melville have gone through what is popularly known as a writer's block.

Writer's block is a condition in which an author loses the ability to produce new work or experiences a creative slowdown. This problem can be caused by a variety of factors. It may be due to the writer experiencing fear, aiming for a perfection that seems impossible to attain or even due to emotional duress. There are many techniques that writers have used to get over it, ranging from drinking numerous glasses of water to taking a long vacation. One technique that has so far proven "feel safe" to me is sleep writing. You focus on your concept right before going to bed and let the ideas form in your sub-conscious mind. Start writing as soon as you wake up and let the words flow freely onto paper. Build on what you have jotted down and when you are finally done, you have before you, your work, your very own masterpiece! Amritadhwani is a platform where your masterpiece will surely find a place. Our team is constantly working to gather the talent within each of you and display it to the world. Amritadhwani brings to you a potpourri of creations in five different languages along with descriptions of the major events taking place within our campus. Working for this magazine and being able to read a diverse variety of thoughts and emotions from people of different age groups has made us realize that people may have a flare for writing irrespective of their areas of academic pursuit. It also proved to us that everyone should discover their hidden talents and pursue their passion irrespective of their age or their career. We, the Amritadhwani team, are proud to present to you this year's budding Shakespeares and Picassos. Turn over and Read on!

- Editorial Team

THE TEAM

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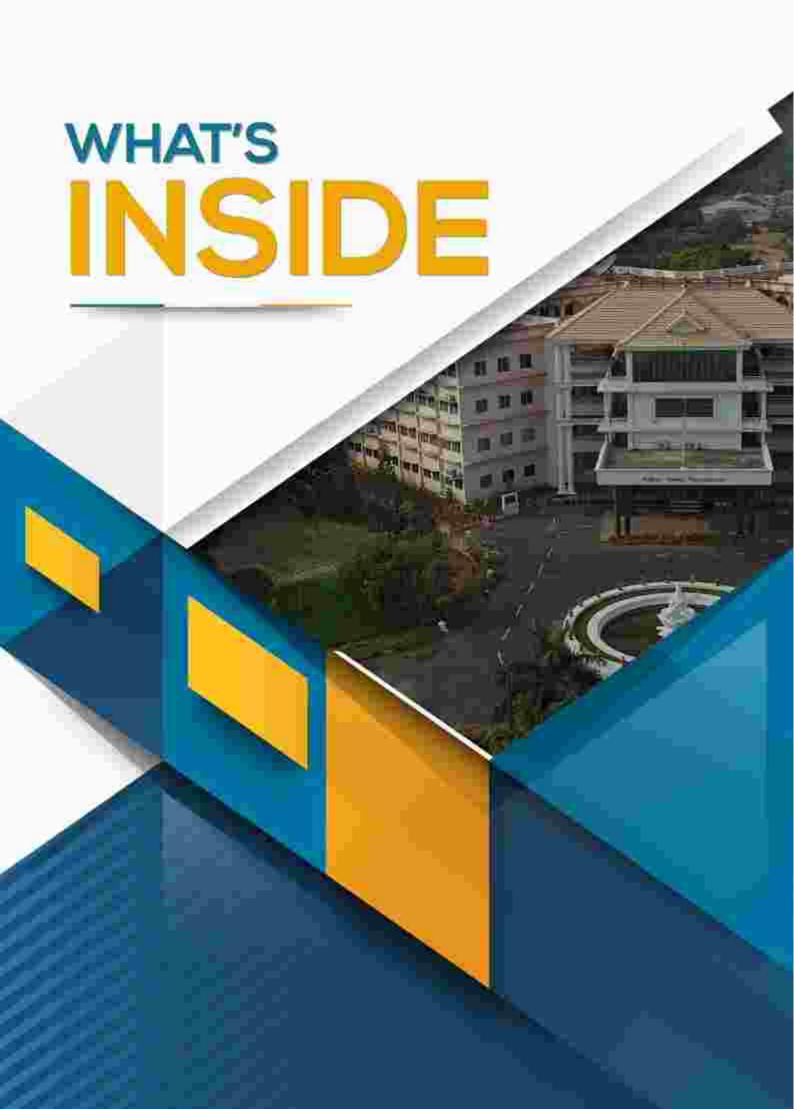
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Presented by the Dean-Engineering during the 23rd Institution Day Celebrations of Amrita School of Engineering, Coimbatore

- (Jan 10, 2018)



- Ranked 8th among 700 universities in National Institutional Ranking Framework 2018 of Government of India. Only private university in the TOP 10
- Ranked as the Greenest campus in India in the category of 'Engineering Institution" in Swachhta Rankings 2017 of Government of India
- Ranked as top private university in India in Times Higher Education (THE) Asia Rankings 2018 rankings



Top 500 in Clinical and Health, 2018

Top 500 in Internetional Ormook, Industry income: 2018

Top 200 in BRICS & Emerging Economies, 2017



NO.1 Private University in India, 2018



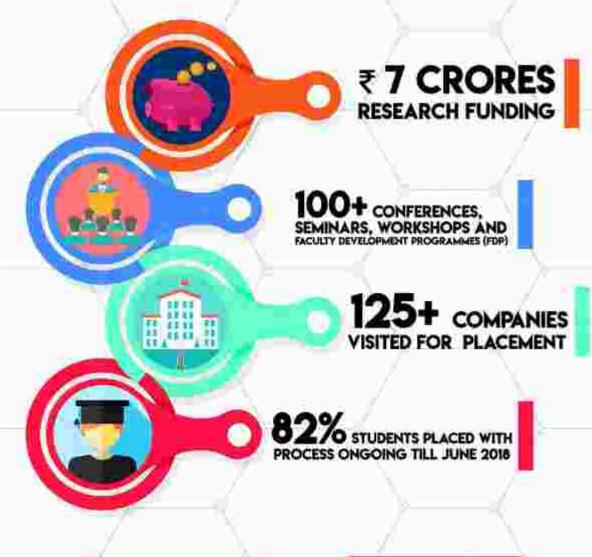
Considering there are approximately 13,900 innecraties regionally, this makes Amrita in the top 1.4% of all universities in Asia.

Top 200 in BRICS NO.1 Private University in India, 2018



YEAR IN REVIEW





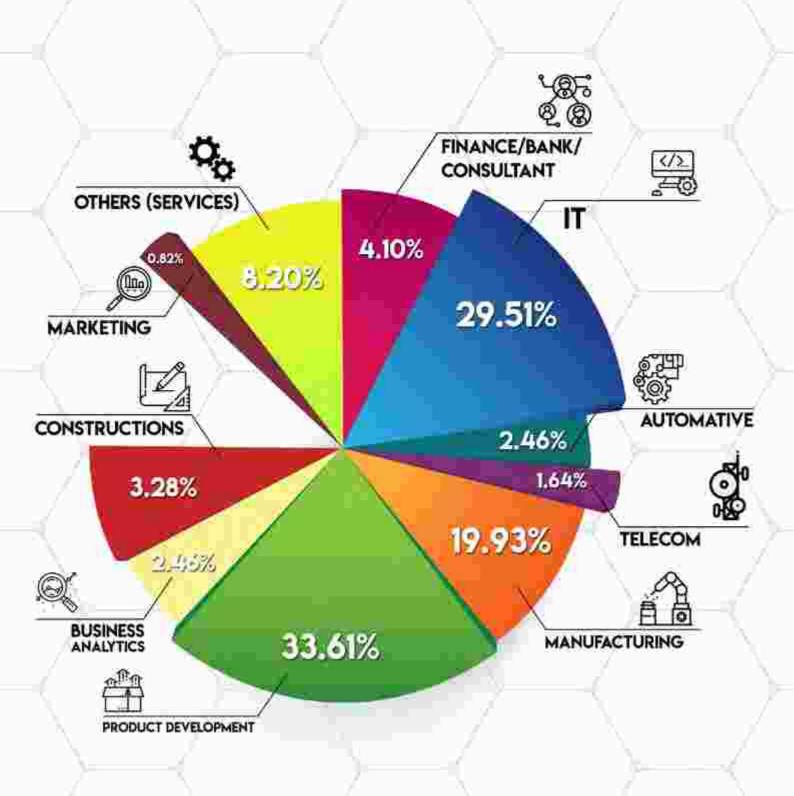






PLACEMENTS

COMPANIES SECTOR WISE



RESEARCH @ GLOBAL-

COLLABORATIVE RESEARCH WITH UNIVERSITIES/ INDUSTRY

MG-BASED HYDROGEN STORAGE MATERIALS FOR NIMH BATTERY APPLICATIONS

Funding agency: AUZ, Australia Faculty: Dr. Thirugnasambandam, Center of Excellence in Advanced Materials & Green Technologies

Hydrogen, as an energy carrier, is a promising candidate which can potentially substitute the rapidly depleting and polluting fossil fuels. Hydrogen production and storage are the major challenges for developing a mature hydrogenbased economy. Hydrogen can be stored in different ways, such as compressed gas, cryogenic liquid, and solid metal (hydrides). Of these stormethods, solidstate storage age method can store hydrogen efficiently with higher volumetric storage capacities.

Worldwide, many material classes are investigated concerning their potential to store hydrogen; each materials class exhibiting specific advantages along disadvantages. Despite with the search for a suitable high-storage capacity materials that conforms to the standards set by the US-DOE for on-board mobile applications, there seems to be no significant breakthrough in that direction. An ideal storage material should have (i) high gravimetric and volumetric capacity, easily rechargeable, (iii) cost-effective, (iv) no capacity degradation over thousands of cycles, (v) made from materials that are earth-abundant and eco-friendly, (vi) fast kinetics for charge and discharge requiring temperatures no more than 100 °C and ambient pressures. Nearly sixty different classes of materials have been



investigated so far with no acceptable performance primarily in all the six criteria outlined above. This research project focuses on systematic investigation on synthesis and characterization of binary, ternary alloys and hybrid materials through inert atmosphere arc melting and ball milling technique. The ternary alloying element will be selected based on the Miedema model. Moreover, addition of ternary elements possessing more negative enthalpy of mixing with that of binary elements would eventually stabilize the alloy to reduce the stability of the hydrides.



RESEARCH @ NATIONAL

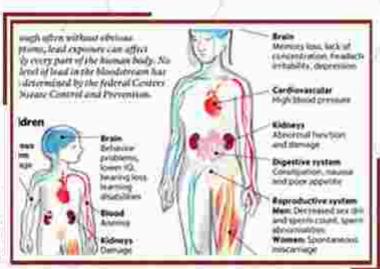
DEVELOPMENT OF A PULSED FLOW PACKED BED ELECTROCHEMICAL REACTOR FOR HEAVY METALS REMOVAL FROM GROUND WATER AND WASTE WATER

Funding Agency: Science and Engineering Board(SERB), Department of Science and Technology.

Faculty: Dr. Murali Rangarajan, Dr. Thirugnasambandam and Dr. Mahendra Nandanwar,

Center of Excellence in Advanced Materials & Green Technologies.

Pollution of heavy metals such as lead, cadmium, and copper has caused severe and long-term damages to the environment and life forms, including



humans. Heavy metals such as lead and cadmium have biological half-lives of over 20 years. Their acceptable limits in potable water as per WHO standards are in tens of ppb (parts per billion). Removing them from industrial effluents and groundwater to the very low concentrations of parts per billion is a major challenge. A team of investigators have been awarded a grant for developing a novel electrochemical packed bed reactor technology for removing heavy metals from water. With its very large area and potential for high throughputs, this technology is expected to perform at very high efficiencies needed to achieve the desired removal of heavy metals.

BEST PROXIMITY POINT ITERATION FOR VARIOUS TYPES OF NON SELF MAPPING

Funding Agency: Department of Atomic Energy, National Board For Higher

Mathematics

Faculty: Dr. V. Pragadeeswarar, Department of Mathematics

Many problems of practical interest are formulated as an operator equation. This operator equation is often solved by recasting it as a fixed point equation such that the solution to the latter will yield a solution to the corresponding operator equation.



On the other side of the spectrum, if the fixed-point equation does not possess a solution, then the next question that arises naturally is, whether it is possible to find the best proximity point for the corresponding operator. Actually, the best proximity point problem is a problem of achieving the minimum distance between sets through a function. In other words, best proximity point theorem analyzes the condition under which the optimization problem has a solution. The main idea of this proposal is to construct the iterative methods for various types of non self-map to compute the best proximity point.

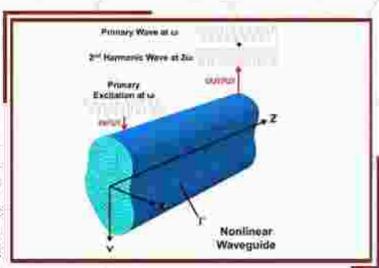
APPLICATION OF SUBPARAMETRIC FINITE ELEMENTS FOR EIGEN ANALYSIS OF WAVE-GUIDES IN ELECTROMAGNETICS

Funding Agency: Department of Atomic Energy, National Board For Higher Mathematics

Faculty: Dr. K.V. Nagaraja, Dept. of

Mathematics

The FEM is a well-established technique in electromagnetics and still generates considerable research. FEM has been a very powerful tool to solve many research complex problems in electromagnetics. Several excellent texts and monographs are available in



the literature. Moreover, these texts often emphasize the rigorous mathematical basis of various FEM formulations. Some also provide programme code. In the past 20 years there has been a great interest in application of this method to microwave components such as waveguides and antennas. But for many years, its use has been restricted because of the so-called spurious solutions in vector finite elements. Very recently the "edge elements" have been employed successfully for vector formulations without resulting in "spurious solutions". In the recent past, use of these edge elements in FEM has reviewed an interest in applying FEM to microwave engineering applications. This in combination with the advances in computer hardware and software helped to make FEM an attractive tool for electro magnetics.

A LOW - COST HAND AND ARM REHABILITATION SYSTEM

Funding Agency: Technology Interventions For Disabled & Elderly (TIDE) Programe Department of Science and Technology

Faculty: Dr. Binoy B Nair, Department of ECE and Dr.N.R. Sakthivel, Dept of Mechanical Engineering.

Stroke is one of the leading causes of death and disability across the world.



Recovering from stroke is a long -drawn and expensive process and requires active participation from healthcare professionals. This project aims to address

these two issues and aims to develop a lowcost, exoskeleton based hand and arm rehabilitation system for patients recovering from stroke. Patients will be able to perform rehabilitation exercises with minimal intervention from a physiotherapist/healthcare professional. Interactive activity based exercises developed along with the hardware, will encourage patient participation. The system will be able to generate automated reports based on the patient's performance in the exercises allowing the healthcare provider to track the patient's progress. The healthcare provider's role changes from an active participant and motivator to that of a supervisor allowing him/her to monitor and help multiple patients at a time.

DEVELOPMENT OF BRAZE JOINT BETWEEN CARBON-CARBON (C-C) COMPOSITES AND TITANIUM ALLOY TIGA/4V)

Funding Agency : ISRO, RESPOND

PROJECT

Faculty: Mr. Govindaraj .M Dr. Venkata Ravikumar Derbha.

This project involves development of suitable Brazing Technology for joining advanced aerospace carbon-carbon composite and titanium alloy, which comes under ceramic to metal sealing domain of material science. (Braze joint is a type of welding, in which two



vastly different difficult to weld materials are joined with carefully carved process). Ceramic to metal sealing technology, though more than 1000 years old, is still a technological wonder for researchers and manufacturers. Among many types of ceramic to metal seals, high temperature seals between carbon -carbon (ceramic) composite to titanium alloy required for space application is one of the most critical parts to achieve. The project proposes to solve any technical issues arising during brazing, conduct artificially simulated field trials so as to use the developed materials ready for space application. This is the first attempt by an academic institute. The sample level process is demonstrated in figure 1, which shows the samples placed on each other with the jig. Figure 2 shows the brazed joint.

CAPACITY, BIT ERROR RATE AND PERFORMANCE EVALUATION OF MIMO BASED COMMUNICATION SYSTEM ON MINIMIZED MULTIPATH ENVIRONMENT

Funding Agency: Indian Space Research Organisation - RESPOND Project Faculty: Dr. S.Kirthiga, Dr.M.Jayakumar, Dr.M.Nirmala Devi, Dr.R.Gandhiraj, Department of Electronics and Communication Engineering.

Multi input multi output (MIMO) a successful multi antenna technology in terrestrial wireless communication systems has proved to offer link reliability and increase in system capacity. This technology explores the wireless channel conditions through the use of multi antenna rather than increasing the transmission power and bandwidth for performance improvement. Thus this technology has triggered the idea to be used in satellite system to overcome performance degradation in adverse weather conditions. With MIMO in place in both space segment and ground station, it opens up new challenges like payload modification, integration with terrestrial system, adverse atmosph



eric effects etc. By addressing these challenges, the performance of the land mobile satellite system can be improved leading to power and spectrally efficient system.

NON-METALLIC HETERO JUNCTION PHOTOCATALYST IMMOBILIZED MICROCAPILLARIES AS OPTOFLUIDIC REACTORS FOR THE EFFECTIVE CONTINUOUS FLOW SOLAR WATER DISINFECTION

Funding Agency: Science and Engineering Board(SERB), DST Faculty: Dr. Venkata Ravikumar Dharba, Department of Sciences

Environmental remediation is one of the major challenges of 21st century Rapid industrial evolution in last century led to contamination of several water sources. Hence, providing safe drinking water for low price remains a challenge for developing countries. In this



scenario, WHO, UNICEF recommended Solar water disinfection method to developing countries to carryout effective disinfection of pathogens in water at low cost. In this method, the contaminated water will be taken in PET bottles and exposed to sunlight.UV component of sunlight causes the disinfection of pathogenic bacteria in the water and water becomes safe to drink. This process is simply called as SODIS. But, the above mentioned process takes longer time for complete disinfection. Disinfection process can also be carried out by opting photocatalytic process. Semiconductor photocatalysts, used in these processes generate necessary radicals that can cause disinfection of water under UV/visible light, that depends on the band gap of the semiconductor photocatalysts. In general, the photocatalyst like TiO2 is used in suspended form in water. After the disinfection process, the catalyst has to be removed from the water. Hence, the cost of post purification processes increases. In this context, we propose anon-metallic heterojunction visible/solar light photocatalyst will beimmobilized in microcapillaries and used

as optofluidic reactors for photocatalytic disinfection of water. Moreover, catalyst immobilized capillaries offer effective disinfection process as they have high surface to volume ratio. Proposed catalyst is not containing any metal and it is immobilized in capillary, post purification such as removal of the catalyst from water is not required. Hence the cost of disinfection process will be significantly reduced.

MICROFLUIDIC CHIP FOR THE MONITORING OF WOMEN HEALTH AFTER 40

Funded by: Department of Biotechnology, Government of India Faculty: Dr. T. G. Satheesh Babu, Dr. Suneesh P. V. and Dr. John Stanley, Department of Sciences, Dr. Bipin G. Nair, The Dean, School of Biotechnology

Menopause is not a disease condition or illness; it is a major biological change similar to puberty. The onset of menopause can invite many life threatening diseases such as cardiovascular and skeletal diseases. Statistics shows one in three women over age 50 will experience osteoporotic fractures. Health care at the menopause and postmenopausal stage is the most effective preventive care to avoid these diseases. Biomarkers can



be used as a measure to predict the risk or to monitor these diseases. By Regular monitoring of a panel of biomarkers health of women can be monitored and morbidity levels associated with skeletal diseases can be reduced by prevention/early diagnosis/maintenance. The proposed work envisages the fabrication of a paper based microfluidic module for optical detection of bone turnover markers (bone specific alkaline phosphatase, osteocalcin and collagen I C-telopeptides) and bone health indicators (calcium and vitamin D). The paper platform helps in keeping the required sample volume very low. With the help of this module simultaneous detection of bone turnover markers and bone health indicators can be performed using same sample. These analyte exists in trace quantities, and hence will be detected through reactions which yield chemiluminescence. The resulting emissions will be detected with a light sensor, and the intensity will be converted as with the help of electronic module.

STUDENT ACHIEVEMENTS

- Nithin Somasekharan of 2013 batch B.Tech Aerospace Engineering secured GATE All India Rank 8 and Akshaya P, GATE All India rank of 75.
- Akshay Menon, Aadityahari.B, Jishnu Krishnan 2014 batch B. Tech Chemical Engineering won Second Prize and cash award of Rs. 25000/- for Model for Bio-Sand Filter with Solar Sterilization at Chemtech Student Outreach Program 2017
- Raakhesh Subhash A. of 2015 batch B.Tech CSE attended the 8th University Scholars Leadership Symposium, in August at United Nations in Bangkok, Thailand.
- Sachin Kamath of 2014 batch B.Tech CSE was selected as Mentor for Google Summer of code Online.
- Rupika Nilakant of 2014 batch B.Tech CSE attended Internship training program

 –iSep in France
- Sreeram Ganesan, Vyas Giridharan, Shubham Maheshwari, Prasanth S, Shamika Kumar, Rama Ganapathy of 2013 batch B.Teh CSE got "Deloitte Innovation Award" in SMART INDIA HACKATHON 2017 at Trivandrum.
- Nithin Subbiah, 2014 batch B.Tech Mechanical Engineering has done an international internship in Nanyang Technological University Singapore, during 01.06.2017 to 31.07.2017 by Indo-Singapore connect program.
- Srilakshmi P of M.Sc. Integrated Programmme has been recognized by Inter University Accelerator Centre for IUAC Summer Programme







Gokulashtami celebrations at Amrita Vishwa Vidyapeetham, Coimbatore campus

Gokulashtami (Lord Krishna's Birthday) was celebrated at Amrita Vishwa Vidyapeetham, Coimbatore campus on 12th August, 2017 with great devotional fervor,



enthusiasm and fanfare. The highlight of the colorful celebrations was a procession in which all students, staff and residents of the Amrita campus participated. The procession included 11 beautiful floats depicting various incidents in Lord Vishnu's and Lord Krishna's life and exploits like Krishnamritam, Birth of Krishna, Narasimha-Avatara, Bhima-Jarasandha battle etc. Children dressed up like Krishna added more color and gaiety to the procession. The accompaniment of Bhajans with drums and other musical instruments made the entire atmosphere and procession charged with devotional fervor for Lord Krishna with students singing and dancing. The floats were conceptualized and designed by student groups in various departments and schools of AMRITA. To encourage healthy competition and bring out the hidden potential and talents of the students, various competitions in sports, literary & cultural events and a painting exhibition on Bhagavad Gita were also conducted.





The 14th Graduation Day of Amrita Vishwa Vidyapeetham, Coimbatore campus was held at the Coimbatore campus.

- (Aug 26, 2017)

14TH GRADUATION DAY



1725 students from the disciplines of engineering, business, arts & sciences, mass communication and social work received their degrees. This included 15 PhDs and 50 medalists & rank-holders.

Sampujya Swami Purnamritananda Puri, General Secretary, Mata Amritanandamayi Math delivered the benedictory address.

Mr. T.R. Parasuraman, Deputy MD &



Member of the board, Toyota Industries Engine Pvt Ltd. delivered the graduation day address. Dr. K. Sankaran, Registrar; Prof. C. Parameswaran, Director-Corporate & Industry Relations; Dr. Sasangan Ramanathan, Dean-Engineering; Dr. Krishnashree Achuthan, Dean-PG programmes and Dr. Raghu Raman, Chairman, Amrita School of Business, Coimbatore participated in the graduation day proceedings.

All graduates were administered the oath, "I, hereby, solemnly declare and promise that I will, in my thoughts, words and deeds, uphold the ideals of Amrita Vishwa Vidyapeetham and commit myself to serving my motherland India, Mother Nature and mankind with love, trust, tolerance and humility,"





SOUTH ZONE INTER-UNIVERSITY TABLE TENNIS TOURNAMENT 2017

The department of Physical Education of Amrita University organized South Zone Inter-university table tennis tournament of Association of Indian Universities (AIU)



at the AMRITA Coimbatore campus from 4 to 6 October 2017. This is the second time, AMRITA is hosting this tournament; earlier AMRITA hosted this tournament in 2011.

57 universities participated in this premier table tennis tournament, which was inaugurated by Mr. Abishek Ravichandran, Commonwealth Games bronze medalist in table tennis, who has also represented India in World Table tennis championship.



Mr. V. Ravi, Secretary, Coimbatore district Table Tennis Association;

Dr. S. Mahadevan, Deputy Dean; Prof. Prashant R.Nair, Vice-Chairman-CSE and Dr. O.J. Kumaresan, Physical Education director of AMRITA University, Coimbates assessed and participated in the incurrent participated.

batore campus also participated in the inaugural ceremony.

Wg Cdr A. Balachandran, Senior GM (Corporate Relations), AMRITA distributed the trophies to the top 4 teams, who have qualified to play All India Inter University Table Tennis Men Tournament at Utkal University from 13 to 17 February 2018. The final standings are as follows:

WINNERS : SRM UNIVERSITY, CHENNAI RUNNERS-UP : ANNA UNIVERSITY, CHENNAI

THIRD PLACE : VTU, BELGAUM

FOURTH PLACE: KARNATAK UNIVERSITY, DHARWAD





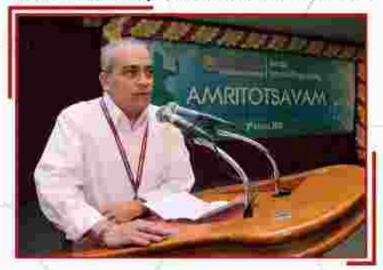
The 19th Annual Alumni Meet at Amrita School of Engineering - Ettimadai was held with great pomp and festivities. Alumni from various walks of life and locations turned up to make the event houseful. The event was attended by staff and current students as well. 300+ Alumni donned the Official Blue coloured Alumni T-shirt and Amriteswari hall was immersed in blue. The day started with the seeking of blessings from the Almighty. Dr. Sasagan Ramanathan, Dean-Engineering, emphasized on how Alumni plays an important role in the growth and success of every institution. Prof. C. Parameswaran, CIR, spoke on how Alumni can contribute to the current students by guiding and mentoring them in their career paths. Senior Alumni shared the vivid and fond memories they had at Amrita and how elated they were to be back in the most beautiful campus. As the day progressed, our current students entertained the Alumni with dance, music and games. The Department of Mass Communication had arranged a Photo Exhibition highlighting the milestones in the short but rich and colourful history of Amrita Vishwa Vidyapeetham. The formal event ended with a hearty lunch. The interactions went on till late evening. Highlights:

- Largest turn out till date 341 Alumni
- 2. Photo Exhibition Memories



AMRITOTSAVAM 2018

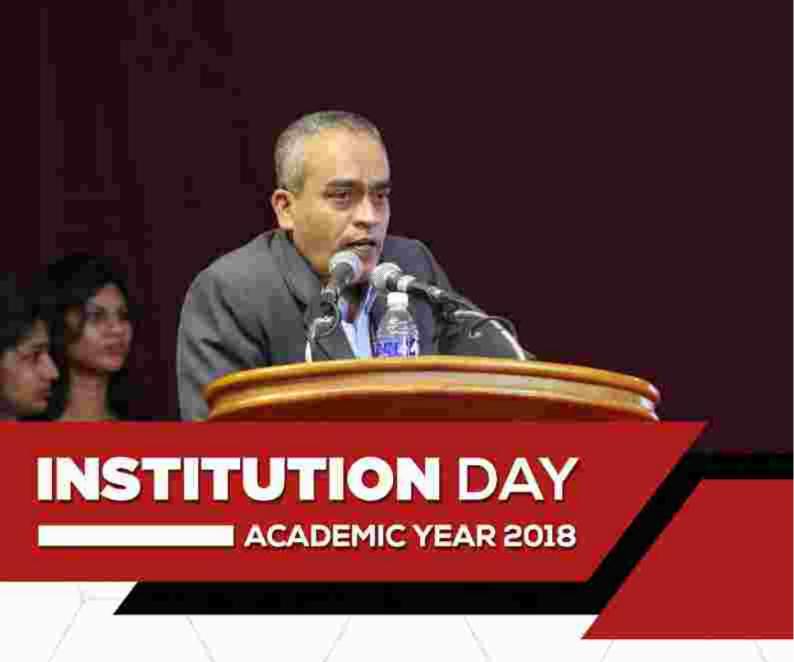
41 Events were conducted in 6 Categories (Fine Arts, Literary, Dance, Song, Music and Theatre) as part of Amritotsavam. The Chief Guest for the programme was Mr. Rajavishakan K R who is currently working as an Associate Director in the Film Industry and our Alumnus of 2005-2009 B. Tech Mechanical Engineering.



Mr. Rajavishakan K R has worked as an assistant director in movies such as Darling 2. His upcoming projects are Aakko and Yung Mung Sung. There was tight competition among the students belonging to the four houses of our Institution such as Amritamayi, Anandamayi, Chinmayi and Jothirmayi. Anandamayi secured first place with 311 points. Amritamayi secured second with 129 points. Jothirmayi and Chinmayi secured third and

fourth place with 96 and 61 points respectively. Four events were conducted for staff as part of Amritotsavam 2018.





Amrita School of Engineering, Coimbatore organized its 23rd Institution day.

- (Jan 10, 2018)

23RD INSTITUTION DAY



Mr. V S Noronha, Vice President & Head (Defence Business), Tata Motors Ltd. was the Chief Guest for the event. Mr. V S Noronha is a senior management professional, with over 36 years of executive experience. He is a member of the Confederation of Indian Industry (CII) National Defence Council and Co Chair of the CII – Military Vehicles Committee of CII.



The tone for the Institution day was set by Dr (Col) P. N. Kumar Head, Student Affairs, who welcomed the gathering. Dr. Sasangan Ramanathan, Dean-Engineering delivered a video presentation of student and faculty achievements, as well as the social activities of the University over the year, which was well received by the audience. Next, Mr. Prashant R. Nair, Vice-Chairman, Dept. of Computer Science and Engineering, introduced the Chief Guest and invited him to address the gathering. Dr. K. Shailendra, Professor (Students Welfare) proposed the vote of thanks.

As a part of the Institution day celebrations, awards were presented to meritorious faculty for excellence in teaching, research and outstanding contribution to university through extension and outreach activities. From the students side, various endowment & memorial awardees, academic excellence & proficiency awardees, college magazine editors and student achievers were recognized during the institution day.





23RD SPORTS DAY

YEAR (2017 - 2018)

The 23rd Sports Meet of Amrita Vishwa Vidyapeetham, Coimbatore campus was held at the Coimbatore campus

- (Feb 12, 2018)

23RD SPORTS MEET



Prizes were distributed by Dr. Natarajan R., Olympian & International Athlete and Mentor Director, India Sports Promotion Academy.

Dr. O.J. Kumaresan, Physical Education director presented the annual sports report. Dr. Joshi C.Haran, Professor of Mechanical Engineering presided over the event.

ATHLETICS INDIVIDUAL CHAMPIONSHIP



MENS

PRAGATHEESWAR M

JYOTHIRMAYI TEAM

WOMENS

A DHIVYA BHAARATHY

AMRITAMAYI TEAM

16 POINTS





BEST SPORTS PERSON OF THE YEAR

R VAIDYANATHAN

MECHANICAL ENG.

FINAL YEAR

OVER ALL TEAM CHAMPIONSHIP

WINNER: Anandamayi Team with 324 points RUNNER-UP: Chinmayi Team with 280 points

SWIMMING INDIVIDUAL CHAMPIONSHIP



MENS

LALITH KUMAR N

JYOTHIRMAYI TEAM 15 POINTS

WOMENS

ASHWITHAR

ANANDAMAYI TEAM

15 POINTS







ANOKHA 2018

"Anokha Techfest provides students of Amrita School of Engineering, Coimbatore an invaluable chance to discover, develop and demonstrate their talent, to excel and provide a podium to stand on and succeed. This student-driven techfest



8th National Level Techfest

AMRITA SCHOOL OF ENGINEERING COIMBATORE

showcases and celebrates the innovation, ingenuity, teamwork and talent of the engineering students of AMRITA."

> Dr. Sasangan Ramanathan, Dean Engineering

Conducted from 22nd to 24th February, 2018, Anokha 2018, the 8th edition of the techfest saw 15000+ footfalls, 75+ events, 30+ workshops, Lumiere premium lecture series, TechExpo, School Outreach and a whopping Rs. 15 lakhs in prize money.



- There were 75+ exciting and highly competitive contests and events in all branches of engineering, robotics, gaming, cubing and short-film making. Some of the popular events included FIFA 2018 Armageddon Gaming; Robo Soccer; Maze Runner; Death Race; Mayday; Cubing royale Rubiks' cube; Xiamora CTF and E-pictures short film contest.
- Anokha is the first and only techfest in India with United Nations Academic Impact (UNAI) accreditation. The theme of Anokha 2018 was Innovation for societal benefit
- There were 30 workshops by top companies such as Amazon, Microsoft, Mathworks, Cisco, Intel, National Instruments and Robert Bosch. The workshops were in cutting-edge areas such as ASPEN HYSYS, Self-driving car robotics, ANSYS, Cyber Forensics, Analytics, 3D Printing, SDR, IoT and Green Buildings
- The techfest featured Techexpo with Indian Navy, Robert Bosch, Ampere and SP Robotics as exhibitors. Other exhibits included wild life photography, vintage cars and electric bikes



- Another major highlight of Anokha 2018 was an extensive school outreach event titled School Zone, where school children had the opportunity to participate in events such as Cubing, School Wiz quiz, Science Quiz and Harry Potter themed Hogwarts Express and also to explore the TechExpo. The objective of School Zone was to provide school children an exciting glimpse of the engineering discipline. School Zone saw the participation of over 500 school children from various schools
- Speakers for the Lumiere premier talk series showcasing success stories from all walks of life included Mr. Sujith Kumar, HR Leader, Infosys; Mr. Satish Manchikanti, Co-founder, U&I volunteer-driven charity; Mr. Arun Prabhu Purushottaman, director of the critically acclaimed movie, Aruvi and Ms. Priyanka Kochhar, India's first women motorcycle blogger
- Judges for the E-pictures event included acclaimed cinematographer, Mr. Om Prakash
- The grand finale was a scintillating Eventide Musical Show by popular playback singers, Mr. Rahul Nambiar, Mr. Aalap Raju and Ms. Sunitha Sarathy, who have between them multiple Filmfare & SIIMA awards and sung over 500 popular numbers from movies and spectacular performances by Ragasudha and Natyasudha, student clubs of AMRITA
- The Anokha core committee consisted of faculty members, Prof. K. Gangadharan as Adviser; Mr. M. Sreevalsan, Mr. Prashant R.Nair & Dr. K.V. Shriram as Conveners and Mr. Rajendran P. as student organizing chair.
- Major sponsors included H&R Block, Infoview and Cognizant





The Department of Civil Engineering, Amrita Vishwa Vidyapeetham, Coimbatore Campus, conducted an interactive talk session with Dr. E. Sreedharan, on February 26, 2018.Dr. E. Sreedharan, a civil engineer and a retired Indian Engineering Service (IES) officer popularly known as the "Metro Man", is credited for changing the face of public transport in India. Under his leadership, two major Railway projects, namely, Konkan Railway and the Delhi Metro were sucessfully completed.

Dr. Sreedharan, while sharing his experiences said that Konkan Railway project was one of the most difficult projects he has ever worked on has the Western Ghats posed a very difficult terrain with adverse soil conditions. They also had daunting task of building 93 tunnels and several major and minor bridges in the long path. The Delhi Metro, another major project was successfully completed with in a duration of 7 years and 3 months under his leadership.

Dr.E.Sreedharan credits the success of his projects to 4 cardinal principles that he religiously follows and also recommends others to follow. They include punctuality, integrity, professional competence and social accountability. He concluded his talk by asserting that his achievements were a part of his service to the nation and urged the students to follow this example in future.





Mr.GULSHAN RAI - NATIONAL CYBER SECURITY COORDINATOR

Cyber security is becoming a huge concern in India. In the wake of NSA snooping and worldwide company hacks, the Indian government has been actively trying for Internet sovereignty where local Internet traffic remains on servers hosted within the country.

In the wake of increasing cyber threats in India, the Narendra Modi government has appointed Gulshan Rai, a cyber security expert who has over 25 years of experience in different areas of Information Technology as the special secretary for the department. Prior to this, he was executive director of autonomous scientific society ERNET India for over seven years, and was instrumental in setting up of the first large scale education and research network in the country.

Rai holds a M.Tech doctoral degree, and his work in the area of evolving legal framework to address issues arising out of cyberspace has resulted in India's Technology Act and recent amendments in the Act. Here are excerpts from the interview with Mr. Gulshan Rai.

Q: As the national cyber security coordinator, what are the agenda items for the country as such? The major initiatives so as to speak?

A: My objective is to enable secure cyber transactions so that we achieve the overall objective, i.e., the vision of the Honourable Prime minister. Now, in that overall vision, my role is to coordinate among different departments, different ministries, and different sections of the society so that there's a synergy and we achieve the objective set forward by the prime minister.

We've been hearing about this national cyber security policy and I'm told its been reviewed adding the data privacy aspects and so on. Is there something on the anvil sir?

A: The policy is being reviewed from time to time and it's a dynamic and regular affair to review the policy and there's a intention to bring forward a revised, upgraded policy. Also, to address the emerging issues of the technology challenge is also there. Areas like AI,ML,IoT,different aspects of these technologies are applicable to different areas. These apply to many sectors like the IT sector, telecom, critical sector etc. We need to look at it and we are looking at it.

That means, every year there are periodic updates happening to the policy?

A; It's not that every year technology is not changing in that way that we need to change a policy. Policy is a long-term affair. As long as attempt is always there, a policy should be agnostic. It should be wider enough to be made applicable. And it is high time that the gap in the policy to address the emerging challenges needs to be reviewed and then updating of the policywherever possible which can address a challenge.

So, that's what is expected this year, the change in policy?

A: The process is on, and I don't know how much time it will take but certainly the review shouldn't take much longer.

What do you think, considering so many issues like cyber-crime and cyber terrorism and all. What do you think universities like us can do? I heard a part of your talk, about addressing national issues. Can you throw us some light on that?

A: You see, universities play a crucial role. In the sense that, the whole cyber part, I'm not talking about cyber security since it includes that. Whole cyber is a multi-stake holder. They are all different stake holders there. Today, it not possible to have a structure or a system which gets into a vertical kind of a double partnership. A partnership should be there, between the industry academia and the government. These are very important. So it's a multi-stake holder, even in the civil societies. And, in an organisation like computer societies, it's very clear. See, there are different organisations. Computer societies are very old organisation. Their job was to look after the interest after the NGOs. You also are a stake holder in the entire process and every stake holder has a role to play there. So, academia is a very powerful kind of a stake holder where they do the capacity development. They bring the basic foundation, they help in skilling and educating the people to handle these things. You and I can use skills if we've a good basic foundation. Academia provides that basic foundation.

Then of course there's upgrading your skill set. There's M.tech, diploma etc.So, academia is a very important aspect. They can play a role in the capacity development. They can create courses dynamically to address the challenges which the industry and the government are facing. A student coming out of a university needs to be seasoned out to address the issues in the industry and the society in all areas – policy, maintenance, R&D, diplomacy, legal etc. Academia can play a major role in developing technology and developing short term solutions. We don't need any large solutions. Any solution has many components; they're all built on components. If anyone requires a proof of concept, then academia is the best place to prove your concept.

:I've heard a lot about CERT, and how you built it brick by brick.

A: I built ARNET and many other things too brick by brick. The position I'm in, that also started out brick by brick. (laughs) I don't know, I think it's my bad luck that wherever I go, my job starts by building brick-by-brick. I never got to enjoy a built house. I've struggled in my life and I believe that this luck came with me when I came to this world.

Regarding CERT, there was something pertaining to android where there was some vulnerability that was brought out? Is there any major thing that you're proud of during your time at CERT?

A : First of all, I'm really proud that we were able to lay the foundation of the emergency response team. That itself is a major achievement and it is sustaining by itself there. And, CERT, at one point of time was considered a contemporary with other CERTs worldwide, including the one in the US. So, it was a collective effort, it wasn't mine alone. My colleagues at CERT cooperated with me and each one of them was fantastic person. I used tospend almost 2crore per annum to equip them with their skills. It was a collective effort of all my colleagues, I was simply facilitating them. It was indeed a good job and we are all very proud of CERT. We are also very proud that IT Act was the second technology legislation. So, I'm proud to be a part of it. We started writing it at 1998 andwe brought out the act in 2000 and we were the 12th nation to do so. There was also an amendment 10 years back. All those issues and concerns that were there then are still valid. And people who are there currently, they are also building it up in the same spirit in which it was created. So yes, I do feel very happy and proud to be associated with these key projects. Apart from that, I was associated with almost every common computerization projects like income tax, PAN etc. That's why I say that my luck, or rather my fate that I never enjoyed a finished work.

On a lighter note, I'm told you don't use WhatsApp or internet banking?

A: No no, what I said was that I don't use international internet banking. If you read the second paragraph, I would've said that I use a debit card with Rs.35,000.I do use debit card, but I don't use international because who knows who is internationally capturing the data and that's why I don't use it.

I don't use WhatsApp or other social media either, but I do carry out net banking. Today, it's not possible without net banking. I pay my mobile bills on the net. I also encourage people to do so. I am always harsh on the organisations to build up strong robust system.



DR. DEEPAK B. PHATAK, PADMASHRI AWARDEE AND IIT BOMBAY CSE PROFESSOR

"Online education is like a rising tide, where it is going to lift all the boats" and here we have Padmashri Dr. Deepak B Phatak who pioneered online education in India. An alumni from IIT Bombay he is known for his notable works and was ranked as one of the 50 most powerful people in India 2009. Here we have an excerpt from an interview conducted with Dr. Deepak by Mr. Prashant from the CSE of Amrita University, Coimbatore:

Q: You have given a lot of inspiration from your talks and how the teachers have to change their methods. Recently you got a Lifetime Achievement award which is again a feather to your cap. Being associated with CSI I would like to know about your opinion on their stands and your achievement.

A. I was really excited and grateful to receive this honor from our nation and it definitely made me happy. There has been a lot of people who have been doing a great deal of hard work and I was lucky to be part of that group that got opportunities to be a part of many national projects which allowed me to gain experience. Coming back to CS, the entire industry, entire academia and entire government

worked for the CSI and took CSI seriously. In policy making, the office bearers of CSI would form important constituencies. In any CSI event, industry, government and academia would be equal participants. The NASSCOM firm did wonderful things for the Indians of the industry particularly in the service industry but because of busy schedules of the members, they could not participate with equal gusto in multiple forums and because their attendance dwindled, the importance attached to CSI by government dwindled and it made sense so there's nothing wrong with that. But CSI, instead reacting to this by strengthening themselves and understanding that they are primarily an academic institution-please note that, ACM and IEEE still have large industry participation and in this, ACM has much larger participation than IEEE for IEEE is regarded as more of an academic institution than ACM. My point is, forget ACM, but why can't we be like IEEE? Why can't we enhance our own activities in enlarging the membership from amongst the various academics? Look at it this way, we have almost 1 million students on an average every year who join Indian colleges and Universities and almost 50% of them are in the sectors of IT, Electronics and Computer Science. Why don't we have even half of those students in CSI?

We have very active student branches but what do they do? Are those branches taking care of as many needs of the students? Traditionally, the interaction between industry and academia in our country is very less. In Western countries, research activities in institutions like Stanford, Berkeley, and MIT etc. – they're on par with the research done in the industry and there is constant interaction along with a give and take system with the industry. But this had never happened in India, which is pretty unfortunate and we forgot to think of the long term effects of this and we failed to take major steps that would make CSI relevant and imperative to students. We did not encourage our very own people to get into the industry and we did not give an incentive for industry to come into CSI apart from NASSCOM. I ask this one question- How many joint NASSCOM-CSI events have taken place? Perhaps, zero. If someone does not do it, they just blame it on the other and they are not bothered by it for NASSCOM has a considerable amount of financial resources and very powerful top members. As a matter of fact, these top members of NASSCOM are alumnus of various prestigious institutions across India. How many of them sit in the chairs of the academic institution of their college? They are in constant touch with academia

Now according to me, the way to enhance our services include long term strategy of making sure that anybody who is a CS or IT student should be a part of CSI. Second would be to form an alumni institution and keep it active and have interaction very vigorously, like IIT Bombay's strong alumni association that contributes significantly to the growth of both the institution and the industry. One lesser known association is thee Faculty Academic Network Alumni of IIT Bombay Association-this FAN comprises of all the IIT alumni who are faculty members of all the leading institution in the world. And what does the FAN do? About 25 years ago, we realized that if we want to attract the best talent such as that of our faculty, we cannot simply advertise and expect people to come- but we must engage with people and give them an incentive to come. So what the members do is that they often report to the associations those candidates who are doing significant

research projects and often support them and give them an incentive to join this association. And they in fact do. Coming back to CSI, I believe that that's a strategy we should use by giving them a reason to join and giving them the reaped benefits after joining. With respect to CSI, there is strongly a need to improve the communication and quality of our journals, papers etc. Many people are not willing to publish their work in our institution. I remember in Calcutta, when I was present with CR Muthu Krishnan sir, who has also been awarded the Lifetime Achievement award, we had this conversation about why our institutions themselves don't encourage CSI publications and look towards international publications and that we should make it a point encourage more national publications.

Looking at all of this, I feel the best strategy is to buttress the various student chapters. But we can't do so without giving them any incentive. Why can't CSI be the harbinger of open source software teaching for students and good faculty training? Why can't we set up lessons to teach students things required for the present trend in technology? Some lessons might be paid for and utilized whilst the rest maybe put out for open source and for anyone to use and contribute to. I strongly believe that we should also immediately set up communication with NASSCOM and have them collaborating with us. It seems pretty redundant to have all these academic CSI talks without at least a few powerful industry people up front in those talks and giving their input. I realize that financially CSI is not on par with NASSCOM because NASSCOM has support from powerful industry head and when that is the case, why can't we have joint events? I think it's necessary that the leaders of CSI have a talk with the NASSCOM board and try making a collaboration work as soon as possible and showcased to the people. And when we do that, it is sure that we will get good sponsors for reasonably good funding. We can definitely get the glory of CSI back.

I remember from this Birla initiated conference I conducted in 1996 with collaboration with VLDB. We were said that any additional funds generated should be shared among CSI and VLDB. But if these funds generated were placed under the corpus of CSI control and were used instead to fund participation of Indians in research and other technological activities, it would make more sense. At that time, I created an additional of 36 lakhs and thankfully, with VLDB's support, we were able to fund for the next considerable amount of years various research and technical events. Such things can be done even now. But the second thing that happened, which is very sad, is that lot of internal tussles started happening and it went to a point where people started washing dirty linen in public. Only if a positive image is kept in public will one ever get support. You look at a few chapters across the country, Mumbai is doing really well along with Coimbatore. We need a sort of cleaning act and that can come only with the younger generation of the organization along with the guidance of those experienced. So it is imperative that we foster good interaction with industry and conduct events regularly, and maximize the potential of it and get as much as support from the industry in giving students and faculty a learning experience as regularly as we can. With joint effort and more enthusiasm to bring a more wholesome experience we can definitely give CSI its glory back.



ABHISHEK RAVICHANDRAN

Representing our country in an international event is by itself, a prestigious thing. And one player brought laurels in the field of Table Tennis by winning a bronze medal for our country in the 2010 Commonwealth Games. Here we present to you, a one -to-one interview with Abhishek Ravichandran, a national and international level TT player.

Tuhina: When and how did you get into table tennis, or sports?

Abhishek Ravichandran: I started playing Table Tennis at the age of 8. I was introduced to the sport through my brother who was passionate about all kinds of sports. So I started playing TT at school, which went on to become professional after I started playing at a club. But the defining moment came when I started playing for the state and the turning point was when I got to break into the Top 8 in the country, in juniors which helped me to play for the country as well.

Athira: What made you keep going when encountered by failures?

AR: Definitely, I've had failures. Especially for my type of game, being a defencer. There are two types of players, defencers and attackers of which the defencers are a rarity. And India does not have a legacy of defencers. So I had to learn a lot on my own and with the help of my coaches. And of course, every failure was a stepping stone for me. My family and my coaches provided me support everytime I failed or lost hope and that motivated me to play better.

Tuhina: Growing up in Indian society, there must've been challenges, given how education is given more preference over sports. What were they?

AR: First I'll clarify that I'm a professional Chartered Accountant. So there was a lot of pressure in balancing both studies and extra-curricular, they used to call sports as an "Extra-Curricular" back then. It was like a trade-off, you had to study if you wanted to play sports. I had that conducive environment to pump in that kind of effort, to keep me as well as the society happy. In a way, I believe sports help you perform better in academics by inculcating discipline and improving your attention span and concentration. So I wouldn't say academics is a burden for sports, I would say that they complement each other.

Tuhina: You said that a decade back, the sports scenario in India was quite different than the one in the present day. So how do you think it has changed over the years?

AR: Main thing that has changed would be awareness. Today you and I are talking about a sport other than Cricket, so that kind of awareness of other sports has spread across the society and they're able to view other sports as equally important. Also the concept of Leagues have started penetrating into the Indian sporting system. Even the government is putting effort to improve infrastructure and facilitate more support for the players and also encourage them to go abroad and train as well as represent the country through their sport.

Athira: What is your personal goal for the sport, as of now?

AR: Right now, as a player I'm approaching the end of my career but even then I want to be associated with the sporting fraternity. As a player I've made a few contributions and I want to do so in other avenues as well, such as coaching or developing infrastructure or develop a business plan which benefits the sport players.

Tuhina: What moment in your career would you carry with you for the rest of your life?

AR: Winning a medal in the Commonwealth was probably the best moment in my life. Apart from that, I would equally rate my participation in the World Champion-ship also as one of the best moments. I won't distinguish or discriminate between the two; both were the defining moments in my sporting career.

Athira: What is your daily practice schedule like?

AR: When we were professionals the schedule usually comprised an hour for fitness then 2-3 hours for on court training. We also had to plan our diet accordingly. Then an afternoon break followed by another 3-4 hours of practice in the evening. During national camps it used to be more intensive. Many people have the opinion that TT won't require fitness, but only when you start getting injured you realize that it requires that kind of an intense schedule.

Tuhina: What is your advice for students today, who would like to take up sports as their career?

AR: Right now, I think everything is in its place. You just need to play and give your best. A lot of government schemes and public-private partnerships are coming into play which encourages more participation from students. We should try to identify more meritorious candidates and then take them to the next level, as they've started doing for badminton.

Tuhina: We would like to end this interview on a personal note. What kind of motto have you stuck by throughout your career that you would like to pass on to the upcoming generation as well?

AR: I watch a lot of English movies and I found a dialogue from Shawshank Redemption which has stuck with me till now. "Hope is a good thing, maybe the best of things, and no good thing ever dies". So hope is something that keeps driving you towards achieving your goals. So never give up, always have the "Never say die" attitude and keep hoping for the best to happen.





SWARNALATHA

The founder of Swarga Foundation, Swarnalatha J is working hard towards her mission to improve the lives of individuals with neuro-muscular disorders such as Multiple Sclerosis by spreading awareness amongst the general public and changing their attitude towards differently-abled individuals. Under her leadership, the Swarga Foundation has been successful in launching various innovative projects such as SARATHI- Coimbatore's first wheelchair accessible transportation service and Accessible India Campaign. On the occasion of Lumiere, we got the opportunity to know her as a person, her life journey and her future plans. Here are a few excerpts from the interview:

Q: In a society like India where talking about sexual harassment is not well encouraged, how do you voice or talk about it?

A: See, most of the perpetrators of these crimes are usually people known to the victims or their family members. So it becomes all the more difficult to talk about it as it will spoil the relations. There is a lot of stigma associated with this and

everyone will want to judge you when you speak out. And when we women don't voice out these incidents, we become more prone to diseases and neuromuscular disorders like Multiple Sclerosis in the prime of our youth. Among all other patients I've interacted with, at least one-third of them have been sexually harassed. They live with a trauma like this for such a long time, without any support, that it tends to manifest in some form. Parents need to give a lot of support to their children and educate them about the difference between good and bad touch and what to do if someone tries to abuse you.

Q: You have been a mentally strong person throughout your life, be it the harassment, your health issues or even starting your own foundation. How does one go about becoming mentally strong when faced with adversities like these?

A:Let it go. Every failure, every challenge is a lesson. Having been through all these, you should be more proactive and the next time something like this happens to you or someone else, don't hesitate to raise your voice. When I say let it go, I mean let the feeling go that you have done something wrong. Life is a roller-coaster ride. Take the lessons with you but stop punishing yourself for something that is not even your fault. Move ahead with life.

Q:How does Swarga Foundation work?

A:Media has played a role in spreading the news about our foundation. Whenever someone looks up Multiple Sclerosis on Google, the first result is our foundation or my name. So they know, that there is a person who is managing to live with this disease and they will come to our foundation for help. We are very accessible and approachable. Usually, we audit or visit the house of such patients to know about their financial condition and how they are dealing with it. Based on their requirements, we educate them on what kind of wheelchairs they require, the best kind of treatment for their condition and so on. Half knowledge on such issues is very dangerous. We even offer counselling to families who have members diagnosed with such diseases. We have many success stories through counselling.

Q:You have been a part of success stories like SARATHI. So do you have any future or ongoing projects like that?

A:As of now, we have two more vehicles specially designed for patients. These are prototypes since nobody has done something like this before. We are currently in the experimental stage and haven't finalised on a design yet. By the end of May, which also happens to be Multiple Sclerosis Day, we would have launched two vehicles, one in Chennai and another in Kerala. We are also working with the Police Commissioner's Office to make their buildings disable friendly. We are putting up a 30 feet ramp and making an accessible toilet. We also have plans to start a physiotherapy centre. And of course, like our calendar of this year, we have started working on our 2019 Calendar. We have started looking for the models to be featured in the calendar, an equal number of men and women. We usually look for pretty faces because we don't want people to look at disability with sympathy. We

want to bring out that wow factor. We want people to understand that there is nothing different between them and us. I'm trying to change the definition of disability, starting from Coimbatore.

Q:What message would you like to give the youth?

A:For boys, I would say, instead of showing off your gadgets, show off your character. And girls, be strong. Learn to be answerable to your conscience by doing the right thing. Instead of wearing short clothes and showing off your body, show off your mental beauty. One can never become successful overnight. There are certain requirements needed to propel you to that success. Discipline, hard work, integrity, passion, dedication, commitment to time and talent. If you have all these things in place, success will automatically be yours.





SOCIAL ENTREPRENEUR, FOUNDER OF NO FOOD WASTE

Q : How would you define social entreprenership in layman language?

A: One of the forerunners of this field has to be Arunachalam Muruganantham (Padman). He is not only creating an impact in the society but also being able to sustain and make livelihood for himself which is one of the goals of Social Entrepreneurship. Talking about our case in point, he sells a pad for only Rs.2 but he is also able to generate revenue and create employment opportunities. If we compare it with well known brands, even though they have a high profit margin, they cannot sell their technology because it costs a fortune. However, when it comes to social enterprise model, the equipment can be franchised to other entrepreneurs also and make a profit. Not many people are aware of such a business segment. In social entrepreneurship, we do not depend on monetary funds given by the government like an NGO, we build social ventures that are self sustainable and would also generate a profit for our company.

Q: How can the youngsters of this generation explore this unknown

business segment of social entrepreneurship? Where do they get a headstart from?

A: I think college life is the best time to start venturing. Your own friends would be multifaceted and you can utilize their skills for free, so it is indeed the most favourable time to start. If you are able to trust them and provide space and grow along with them, have the same togetherness and vision, you are ready to work on your start up. This generation entrepreneurs have a lot of sharing of thoughts and funding agencies to support their ideas. These agencies always demand a pilot model, though.

Q : What are the obstacles you faced in your journey with regard to our society?

A: Social entrepreneurship is actually a stigma in our country because we don't have a settled life like other careers. It will usually take time for parents and your peers to actually understand what you're doing because the society characterizes an individual based on the name he has and the fame that goes along with. One of the mistakes I did was not explaining to my parents about my field of work. I had this pre conceived notion that my parents wouldn't understand. Due to which, it took them even longer to actually start supporting me. The first step you need to take is to try convincing your parents in a way you would present your project to a panel of judges, a 3 minute pitch if you may call it. They want the best for you and want you to be secure. So if you're confident, know your goals and are able to reflect all of that in your speech to your parents, you are good to go!

Q: What are the set of skills an entrepreneur should possess?

A: I believe open mindedness is key, because an idea can be contributed by a 6 year old child or a 60 year old man. Always try your best to make use of opportunities available to you and have the embrace inclusiveness. Always try to analyse situations practically and don't let emotions come in your way, the thought process shouldn't be driven by emotions, especially for a social entrepreneur.

Q : And finally, what is that one moment in your life when your experienced ultimate satisfaction?

A: There was this one time we had decided to donate food to the poor and needy during Diwali. There was an excess of 2,800 sweets produced and we happily dropped them off at different locations. Another incident was when we decided to open a counter in the government hospital to donate food, about 2 years back. On the very same day while I was travelling, a couple who just got out of the hospital were seated right in front of me. They discussed about how the food provided to them had eliminated their need to spend for lunch and instead buy supplies for their family. Even though I wasn't physically there to supply them with food, I was happy that my volunteers had done a good job. On a similar note, even through EduDharma, a crowd funding platform for providing students with education and scholarships, the success stories I hear everyday make me feel extremely content



ARUN PRABHU - DIRECTOR, ARUVI

Q : How was the shift from TV Serials to directing movies?

A: I spent most of my childhood being a part of different TV Serials. There came times when I used to be taking up two shifts per day and then somehow I just reached the saturation point. However, from a very young age I was quite interested in writing. So I slowly developed on that and now I am here.

Q: When was the starting point for Aruvi? And how did the initial stages of conceptualizing begin?

A: Well, most of the things when we start writing, we don't expect it to become a movie. I am good at narrating though. So I usually monoact a lot of my scripts, and ensure that I provide them with a theatrical experience. I start explaining my storyline to kids, initially. Kids are spontaneous in nature and respond immediately if they like it or don't understand. If it engages them, I take the liberty to assume that it would work with the public in general. So that's how I started out with Aruvi,

even though it is a serious issue to be talked about, the kids had developed a connect and at that moment i knew It would definitely strike a chord with the audience.

Q: How important is a release date for a movie?

A: Release date is really crucial for a movie because the success of a movie directly depends on it. if it rains, or there is a release of some political statement, it affects the entire cast and crew. We need to ensure that in the three day harvest time that is a Friday, Saturday and Sunday a movie has, it should receive the most love. We should also keep in mind the movies releasing the previous week and the week after and a lot of work goes into choosing a proper release date because it's one of the main contributing factors for a positive result.

Q : A little about your future ventures?

A: I am interested in delivering movies which have a underlying message. That's the kind of movies I would like to give to this society, a movie which is more people oriented.

Q: If there is one thing you would like to change about the movie industry, what would it be?

A: I would like it if the movies are more content oriented and rooted. I would like to bring back the old times, where huge production houses put in a lot of effort to craft a story, built upon it for months, chose appropriate actors, and then discussed about shooting. The scenario has changed entirely now. It operates entirely in the reverse order.

Q: Which is your favourite tamil movie?

A: Thillana Mohanambal is the first movie that comes to my head, which stars Sivaji Ganesan and Padmini as a Nadaswaram player and she, a Bharatnatyam dancer.

Q: If not a director, what would have been your alternate profession?

A: I think I would have become a professional chef at some restaurant. More than writing and directing, I enjoy cooking and it always comes first!





THE BEST ENTREPRENEUR & EDUCATIONALIST

Dr Manimekalai Mohan, the recipient of the Best Woman Entrepreneur in 2015 and the Managing Trustee and Correspondent of the Shree Sarasswathi Vidhyaah Mandheer School in Mettupalayam, is an inspiration to many. Under her guidance and leadership, the SSVM has reached an incredible stature in a short period of time. Her principle of educating the students through a blend of innovative teaching, steady progression and spirituality in education is what makes her institution stand tall. Here are some excerpts from her interview:

Q : Who inspired you to start an institution?

A: Honestly speaking, no one. I was my own inspiration. You cannot see someone, get inspired and become So-and-So. You should have the inner faith in yourself which tells you, "I can do this". For example, as students you all are familiar with the usage of gadgets. But you should also have the ability to think how those gadgets should be used in the right way. In the same way, you should analyse the present system, be aware of the drawbacks and try to make them right. That was how I got the idea to start an institution. Q : How was your schooling back in your childhood?

A: I was in a convent and the system emphasised a lot on time. I remember once, when I was in the fourth grade, I spotted a mango tree with fruits hanging just above the top of the slides. So every time you went up there, you would be enticed by the delicious mangoes hanging right above your head. I gave in and plucked a few. Suddenly, someone shouted at me, "Come to the office. NOW." I went to the Principal's office and she asked angrily, "Why did you pluck the mangoes? Tell me the truth." I said, "Mam, seeing those ripe mangoes up close was making my mouth water". She said, "You should know that you have no right on others' property. Bring your parents tomorrow so that they can learn this first." I was really hurt because I knew my parents would never encourage any sort of behaviour like this. I apologized profusely and promised that I will never repeat this mistake again. That's how my schooling was. It was very easy to find if someone was doing something wrong.

Q : What are the set of skills that you believe that every student should hone as they walk on the path to adulthood?

A: The first and the most important skill they should have is truthfulness. When you are honest and truthful, you never have to keep any sort of tension within yourself. Also one should learn to stick to their word. When you promise something and stick to it, people tend to have more trust in you. You should create a strong belief in the people in your life.

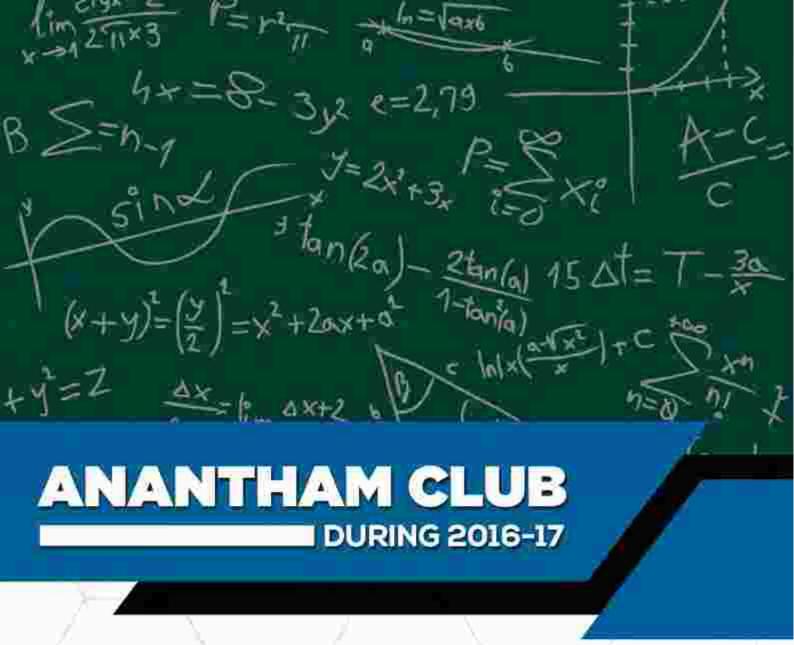
Q : Being such a successful entrepreneur, what would be your words of advice for a budding entrepreneur?

A: For a budding entrepreneur or for any entrepreneur as a matter of fact, they should always be honest about the facts and not manipulate them for money. Your hard work and your honesty should live long even after you die. If you are a person like that, even after death, you will be living. They should know that growing a business is difficult but destroying it is very easy. So young entrepreneurs should start a business in such a way that it lives even after they are gone.

Q: What do you think is the major problem with the Indian education system as compared to those in other countries?

A: The major problem is the examination system (Laughs). The examination system can be converted to a research system. Until say, sixth grade, they should be educated on all walks of life. After that they should be allowed to explore and find out their areas of interest, research on the current problems and provide solutions so as to contribute to the growth of the country. Also, the education field must be dealt with by an educationalist only, not by any businessmen. The root of all these problems lies in the current government. You being the trendsetters, must bring about a change by making a government comprising of educated people who have a clear idea about the problems. You all are the future politicians. The need of the hour is the right leader and she/he should come out from your generation.





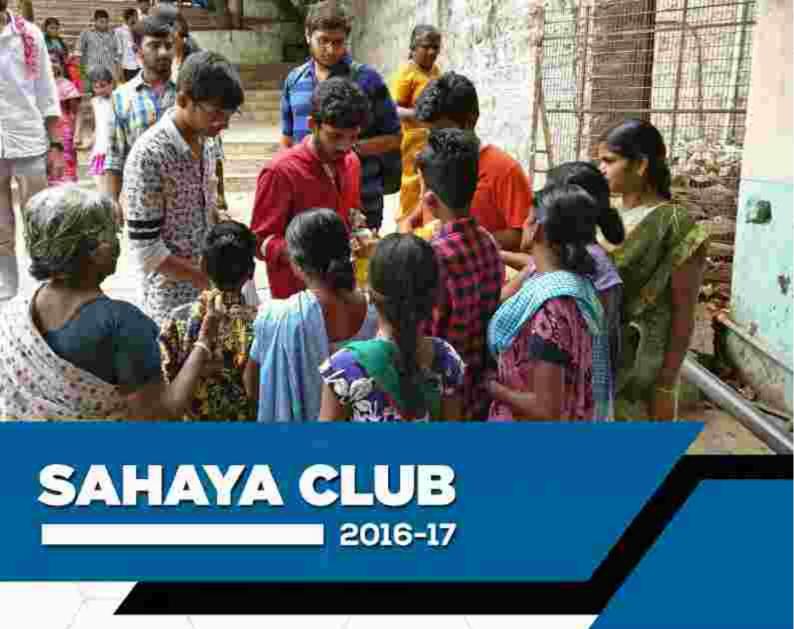
Anantham club organised Shankya, an induction program for the freshers of 2016 -17 academic year. Various Math related Fun events were conducted. Students of Anantham Club Screened the movie "The Man Who Knew Infinity" during the odd semester 2016-2017. The club organised a Lecture by Pro.H.P Patil of Pondicherry University on Introduction to Graph Theory in Oct 2016. Anantham Club Sponsored the events Math Buzzer, Math Olympic and Brain Storming during ANOKHA 2017. Students of Anantham Club hosted a Scavenger hunt and various other fun events on the eve of the Birth Day Celebrations of The Great Mathematician Srinivasa Ramanujan on 21 December 2017. Pro.P Vanchinathan of VIT, Chennai deliverd a lecture on Sreenivasa Ramanujan and his great Contribution to Number Theory on 22 Dec 2017 as a part of the celebrations of National Mathematics Day. Various events like Panel Discussion by students of Anantham and Lectures by students on various topics of Mathematics were conducted on 22 Dec, 2017 to mark the occasion of National Mathematics Day.



AMRITA TALKIES 2016-17

AMRITA TALKIES FILM CLUB started its functioning in October 2016. We started our journey by screening the oscar nominated Asian movie visarnai. Script writer of the film Mr. Chandra kumar was the honour of guest on the day. After screening there was an open forum where Mr. Chandran shared his experience with the film. The movie which was based on the script writer's widely acclaimed Tamil novel "lock up" was screened at the inaugural. The program was officially inaugurated by Dean Engineering Mr. Sasangan Ramanathan. Around 600 students were present during the screening at Amriteswari hall.

Vission and mission of the club is to encourage to screen of all genres and style and to facilitate of the scope of film studies among Amrita students by providing them opportunity to watch National-international films which got recognized in different criteria, and to conduct workshop on film makings and techniques, to organize competitions where young talents can bring out their own films, a platform to interact with industry people, to conduct film related quiz and open forums. Amrita talkies along with students has conducted short film competition on the theme water preservation for the last institution day. We screened Rear window movie of "HitchCock" as part of classic movie selection on August 21st. Then we also conducted an acting workshop as part of club's first anniversary on October 21st and 22nd. Mr. Jayaprakash Kuloor, actor and script writer was the resource person.



REPORT FOR THE YEAR 2016-17

Around 270 students are in SAHAYA club. The activities for Jan 2017- Dec 2017 are as follows: Old newspapers were collected from the quarters and sold it for raising funds during Jan 3rd week. A visit to Cheschire home by 10 students along with ALIVE Care to Care students on 23.09.2017.

Two batches of 25 students each went to Cheschire home, Peelamedu and Kulanthaikal Kudumpam and spent some time with them on 26.01.2017. They provided the in-mates with a few required toiletries to the home. A blood donation camp was held on March 28, 2017 220 units of blood was donated to Coimbatore and Pollachi GH. Blood donation awareness camp was held on 22.09.2017 along with NSS unit 2.

A blood donation camp was organized along with ALIVE on 27.09.2017 as a part of Amma's Birthday celebration. 109 units of blood was donated Distribution of sweets and lunch (200 nos) for the needy in Maruthamalai, Coimbatore on 23.10. 2018.



REPORT

Srishti has been responsible for a major revolution in the pursuit of quality programmes for all things literary in Amrita since June 30, 2004 and has successfully emerged at the forefront in bringing together a multitude of talented students to display and nurture their skills in the literary domains of theatre, poetry, debate

and much more.



Under the astute guidance of Dr Harini Jayaraman and the English department, Srishti has blossomed and become a place for students, both the alumni and the present, to hone their skills, to network and a place to call their own. Srishti kicked off the academic year by putting up a street play in the month of July followed by the much awaited club induction, Yukthi which took place on the 2nd of August.

The event which took place in the Amriteshwari hall drew in more than 250 young and eager literary enthusiasts. Quizkreig, the quiz club of Srishti, held their first event on July 7th thereby kick starting the work of the individual clubs. The month of August then had a public meet followed by a Business Quiz. September saw a plethora of events and sessions including kaleidoscope, a debate session, an introductory session of the beloved Poetree - the poetry wing. Peek a book- the book review wing and Bhaava- the theatre and dramatics wing of Srishti. The second last week of September, Srishti held a one of its kind language week which saw events being put up by Dhwani, Uddan, Manoharam and Tamizh Siragu, that is the Malayalam, Hindi, Telugu and Tamil wing of Srishti. All the events were well received and had a large participation. In October, Srishti hosted a Mythology guiz and on the 21st, the Quizkreig event managers and fellow Srishtians successfully helped to conduct an inter college and school quiz. In the latter half of October, Tamizh Siragu conducted an event. The first week of November, Srishti put up one of the most awaited events of the year, Advaiya, which was held on the 1st, 2nd and 3rd of November and which brought together students to successfully pull off a well written play. Advaiya was well received by the students, the staff and the judges alike. With the end of Advaiya, Srishti events for the odd semester came to a conclusion. Srishti will start the even semester events by hosting Vasantham, an event put up by Tamizh Siragu in connection with Pongal celebration.





REPORT

Amrita has always remained in the forefront in bringing together a multitude of talented students to display and nuture their skills in various domains beyond academics.



RAGASUDHA

Ragasudha, the music club of Amrita had an eventful year which was kick started with Aalaap, the induction program which was followed by myriad performances by the crew in various inter college cultural fests.



NATYASUDHA

Natyasudha, the dance squad of Amrita has never ceased to enthrall the audience with diverse panache of dance forms. They started off with Thanday, their formal induction programme in October 2017 and welcomed the enthusiastic new comers into their family.

SRISHTI

Srishti, the literary club of Amrita, encompasses the young and eager literary enthusiasts. It has been in the constant pursuit of quality programmes in the literary front at Amrita for 14 years now. Yukthi, the induction event held in August 2017 marked the beginning of the year's activities, followed by events of the different wings through the odd semester. The three daytheatre fest, Advaiya, conducted in



November was the key episode that drew in large numbers of theatre lovers.



PHOTOGRAPHY CLUB

The Amrita Photography club has always been a forum for kindling novelty among the students. The club conducted a DSLR film making workshop in association with Nikon India Private Limited in September. Mr. Sathya Narayanan, Technical Head, Nikon India Pvt. Ltd. was the man behind the show, that witnessed an enthusiastic bunch of aspiring film makers.



TEAM MEDIA

The Team media focuses on capturing the vibe and emotion of every event in the campus and provides a great opportunity for all the budding photographers, cinematographers and editors to showcase their talents and gain experience.



AMRITA TOASTMASTERS CLUB

The Amrita Toastmasters Club, officially chartered in January 2017 strives for the development of public speaking and leadership skills in students. The club has been thriving ever since its inception with the ExCom members attending the Offficers Training program held at NIT Trichy and young toastmasters winning in the Area Level contest held at Coimbatore.



CAPACITY BUILDING PROGRAMME FOR FACULTY



Mr.S.Kanagaraj, Dept. of Social Work, Amrita Vishwa Vidyapeetham University, Coimbatore participated in ICSSR sponsored Capacity Building Programme for Social Science Faculty Members organised by Department of Management, Mizoram University, Aizawl from 22nd May to 3rd June, 2017.

(Mr.S.Kanagaraj presenting research paper as part of the training programme)

CAPACITY BUILDING TRAINING PROGRAM FOR CHILDLINE FUNCTIONARIES IN KERALA



The Training Program entitled "Capacity Building Training Program for Childline Functionaries in Kerala" was organized by Department of Social Work, Amrita Vishwa Vidyapeetham, Coimbatore & Amritapuri Campus in partner with UNICEF. The program has been conducted in Amrita Vishwa Vidyapeetham, Amritapuri Campus, Kollam from 16th – 24th June 2017; on the first 3 days for the Coordinators, next 2 days for the Directors and

on the last two days for the Counsellors of Childline in districts across Kerala.

SALIENT FEATURES OF TAMILNADU SOCIETIES REGISTRATION ACT 1975

Mr.S.Kanagaraj, Field Co-ordinator, Dept. of Social Work, Amrita Vishwa Vidyapeetham University handled session on Salient features of Tamilnadu Societies Registration act 1975 for the field staff members of CORD on 10th August 2017 at CORD office, Thondamuthur, Coimbatore. The main purpose of the session was to give an overview on the act, the purpose of registration and to discuss field level difficulties.



TRAINING PROGRAM ON "CONTINUING PROFESSIONAL DEVELOPMENT OF COUNSELORS AND HEAD OF CHILD CARE INSTITUTIONS OF TAMIL NADU" WHICH WILL BE HELD IN OOTY FROM 28TH AUGUST 2017 TO 30TH AUGUST 2017



Tamil Nadu State Commission for Protection of Child Rights (TNSCP-CR) organised a three day training program from 28th August 2017 to 30th August 2017, entitled "Continuing Professional Development of Counselors and Heads of Child Care Institutions of Tamil Nadu" in collaboration with National Commission for Protection of Child Rights (NCPCR), Government of India which is being

supported by UNICEF Chennai and Department of Social Work, Amrita Vishwa Vidyapeetham, Coimbatore.

MSW STUDENTS VOLUNTEERING AT COIMBATORE CANCER FOUNDATION (CCF) MARATHON



The CCF marathon held on Sunday, October 2, 2017 provided an opportunity for their students of Department Of Social Work in Amrita Vishwa Vidyapeetham. The Coimbatore marathon brings together people from various walks of life from across the country to help spread awareness and support those who are fighting cancer.

TRAINING PROGRAM ON EFFECTIVE IMPLEMENTATION OF THE CHILD AND ADOLESCENT LABOUR (P&R) ACT, 1986

UNICEF and the Department of Social Work of Amrita Vishwa Vidyapeetham, Coimbatore jointly organized a training program on "Effective Implementation of the Child and Adolescent Labour (Prohibition & Regulation) Act, 1986" for National Child Labour Project (NCLP) - Directors and Program Managers of Tamilnadu simultaneously for two consecutive days, i.e., 16th November, 2017 and 17th November, 2017 in Amrita Vishwa Vidyapeetham, Ettimadai, Coimbatore



WORLD MENTAL HEALTH DAY CELEBRATIONS AT AMRITA UNIVERSITY CAMPUS & PALAKKAD RAILWAY JUNCTION



MSW students conducted world mental health day at Palakad Railway junction. It was inaugurated by Palakkad Jn. Master and Deputy Commercial Manager. The Railway authorities supported and arranged facilities for conducting the programme. It was good opportunity to spread awareness about mental health among general public.

THE WORLD DAY OF REMEMBRANCE FOR ROAD TRAFFIC VICTIMS (WDR)



Social Work students celebrated World Day of Remembrance for Road Traffic Victims at University Campus at Visitor's Car parking at 04.30 pm on 9th November 2017. This programme was initiated and organized by Department of Social Work, for creating Awareness about Mental Health. Flash Mob was conducted in order to attract the crowd and students from various departments were came together to see the programme. As part

of the Celebration, 'Mime' was conducted on the theme of "Psychological First Aid".

HEALTH AWARENESS PROGRAM IN ETTIMADAI VILLAGE

I MSW Students , Dept. of Social Work, Amrita Vishwa Vidyapeetham University organised health awareness programme in Ettimadai Village



PARTICIPATION BY S.KANAGARAJ AT NIDM, NEW DELHI



Mr. S.Kanagaraj, Field, Coordinator Dept. of Social Work, Amrita Vishwa Vidyapeetham, Coimbatore campus participated in Training of Trainers Programme on "Integrating Disaster Risk Reduction (DRR) in Rural Development Policies and Programme" from 20th to 24th November, 2017 at National Institute of Disaster Management, New Delhi, Eminent faculty members from NIDM handled the session on important topics. The

training was effective to understand important concepts of Disaster Management.





DRAPETOMANIA

I love the way the world lies. Every day, I carry on with the journey of life, moving forward, loathing savagery. I find my soul weary of the darkness that trails across the world, which at times sends spasms of petrification into every hair strand that bore my blood, with its horrifying wickedness. I beckon to the angel of mercy to help me get out of this morass, as I find myself unable to bear the malediction of I

living in this world amid brutality, immorality and torture. With rage and revenge spurting out from all the corners, the earth has become a battlefield where love races with hatred, but loses. Virtues have been lurched under the weeds of enmity. I seek good tomorrows, but fail to find one. Strong are the so-called domestic beasts, whose sordid nature has sought violence. I ask myself what



the purpose of regarding myself as a part of this world in this condition, really is. Sunk in the sea of excruciating pains, I am unable to strive across appalling ordeals which are outstretched in the indefinite future and to find the helping hand of God to pull me up from the tumultuous quagmire of sorrow and darkness. I stare at the dismaying condition of the world, the beauty of the earth, all decayed. I feel like a stone pelted on adversity. World is lost in the precipice of misfortune. The scanty greenery, that accentuates the earth's helplessness, reminds me of the forgotten kaleidoscope of the past. I have sensed the Drapetomania in me. I need the earth back in its eternal beauty with my compatriots desiring a world of togetherness, love and fidelity. We need to transform.

FLAWsome!

Go on, grab a canvas and paint your own self. Create hues of your own. Explore on that big canvas, how you'd wish to live. Find joy in the imperfections of your own portrait. Listen to the rhythm of the rain. Make yourself a cup of strong tea, get lost in its delight. Turn a deaf ear to the commotion behind the door. Run your fingers through your tangles and face the wind. Give life to your lovely smile. Set your voice free, sing your favorite song. It's time to let go of all that put you down. Breathe. It's time to dare them, to challenge them to keep up with the beautiful mess that you are. Tell them that you are comfortable in your own skin, that you are proud the way you are. Let them know that nothing will ever waver the way you are, the way you'd like to live. Let them know that you have rediscovered the tunes that lived deep in



Abhirami Meleth Mass Communication First Year

the hollows of your throat. Shout out to the world that you have become stronger than ever before. Shout out to the world that you have embraced your flaws. It's never too easy to not let them carve your peace out. But, it's never too tough to let go and be wild. Because it is you who matters. The incredibly, gorgeously chaotic YOU!

A POET WITH PAIN

She made him a poet, Through her rejections. But he made her "immortal" Through his poems.

The WhatsApp love

Earlier, when the ticks turned blue, My cheeks turned red, But nowadays, when the ticks turn blue, My eyes turn red.

Her Smile

I slipped I fell She laughed I fell again.



Aditya. P
Mech Engineering
First Year



THE SECRET OF A WOMAN



Meenakshi Saji EEE Third Year

Her eyes were a shade of grey, bright in their mischief, yet cautious and secretive. Not willing to spill out the secrets of her heart to those who wished to know. She knew the art of speaking without saying anything at all, just enough to convince the people around her that she was nothing more than the bubbly, cheerful person they all saw her for. But she had stories that ran deeper than the smiles she showed. She projected herself as someone who could be there for all, and didn't need anyone for support. She was strong, fierce and independent - an indomitable spirit, an untamable force. She rose stronger from each blow that life gave her and dodged every curveball

that came her way with a smile on her face and a determined will in her dark grey eyes. She was the calm before the storm, and the eye of it. She was the heat of the fire and the cold fury of ice. She was someone who could set her mind to

CONFESSIONS OF A FRESHMAN FIRST-BENCHER FROM COIMBATORE

PRE-COLLEGE JITTERBUG

I sit in the main canteen with my parents, barely taking in the hubbub of the crowd around me. There's a line for the counter, and a rather long one, seeing as it is lunch-time and there's a horde of hungry teenagers milling impatiently outside the building next door. Devotional music pours out of the speakers at high volume; I'm a bit petrified, to be honest, as I bite into the oddly-shaped cutlet and stare at the slowly spinning death machine on the canteen roof.

Orientation day, the day when I would be formally initiated into this new lifestyle, is taking its toll on me - and many of my peer group as well. I register many confused and nervous faces, but I don't know which of them I'd see every day for the next four years. It seems like an eternity.

NEW BEGINNINGS

I step into a new classroom. It's been a few days since college started and we've only recently been informed about our permanent classrooms. It took all of us some effort to find our classrooms after climbing up three excruciating flights of stairs, but we made it somehow. A lot of unfamiliar faces turn as I walk through



the doors and make a beeline for the first bench. It's vacant, like all the other benches in the first row. Nobody dares to approach that zone, for fear of a potential mind blowing up underneath them. I am now officially a first-bencher. I don't mind - it's so much easier to listen to the lectures and take notes from here. The train bellows plaintively in the distance.

TRIPPING OUT

It's been about a month since we joined college. Everybody is wary of everybody else, unsure of which collective to merge into. The news of the Amritapuri trip comes as a welcome relief - it could be the ice-breaker we all needed to start behaving less like office employees and more like first-year Engineering students. The day we board the buses with our bags and our enthusiasm of being on our first "college trip", there is a lot of mindless chatter and subsequent silence. I think the best decision we make during that bus ride is to actually start playing, and gosh, we have such an epic time playing 'Word building' (of all things), Charades and random Q&A sessions to get to know each other.

The ashram is a serene and spiritually enlightening place where we are expected to follow a certain sense of decorum. The day goes at an amazingly slow pace as we wait with our tokens in the large darshan hall to receive Amma's words of wisdom and

her embraces. We depart, soaked in peace and tranquility, but not before we visit the beach and take in the rush of the gusty wind, the golden sunset and the roaring sight of the clear blue sea.

'TIS THE SEASON (FOR TRADITION)

Gokulashtami rolls in, and with it come many seniors urging us to participate in competitions to boost the department score, inciting us to action with promises of a day off if we win. You can feel the inter-department rivalry coursing through the blood of every Amritian. As first-years, we don't have much to do by way of the parade and the floats,



although when the day comes, we are hustled into colorful lines and motivated to yell and chant loudly as the procession moves through the grounds of the campus.

It's strange seeing everybody dressed up on this blisteringly hot summer day and as we head back into the canteen where the spinning death machine does little to cool us, we discuss which department has the best chance of winning, based on the beautiful floats and talented seniors' performances.

TESTS, TRAINS AND AUTOCAD

We are halfway through the semester now. We've been through the startling yoga classes that had been compulsory for us to attend. We've successfully got through our first periodical exam – none of us had expected that kind of pressure. We have got used to the horrors of our ED evaluation labs that we still feel aimed only to confuse us and bend our brains in ways we never thought would be possible. At least most of us can see things that are not physically there, much better than we could at the beginning of the year.

We've also undergone the intensive training that is mechanical workshop. Wooden mallets and annoying, unstable letter punches on easily-scratched metal sheets; high-power soldering and welding tools with face masks that look hilarious; pneumatics, where all we do is push buttons and write notes; product lab, where we do advanced Lego with pumps and cylinders.

We've been notified about the various club inductions that have been going on around the campus – and those same clubs plummeting into non-existence immediately after. Many fantastic cultural events, including a rock band, have occurred. Being a day scholar, I found it highly difficult to attend any of these fantastic events, and had thus been reduced to mournfully listening to scintillating tales of them from the hostel residents. The bus ride home is just as bumpy as ever but I'm used to it, and now have a playlist and talkative bus mates to keep me occupied during the uneventful hour of the ride. I've taken the train once. It was a slightly surreal experience, but seeing as it's an integral mode of college transport, it certainly wouldn't be the last.

MORE TESTS, PROTESTS AND HALL TICKETS

It's the end of the semester already. Time has flown by so fast. Thanday, the annual dance fest, had created a bit of a discussion earlier in the year. Protests and strikes coinciding with the inauguration of a hair salon sparked a ton of memes and polls on social media. It's all behind us now. The exam season is almost upon us and everybody is scrabbling for notes, resources and lost textbooks that they'd misplaced throughout the year. Attendance issues have elevated the blood pressure of many unfortunate souls. Professors are snatching up free hours like chillingobi platters or special dinner desserts, in a mad rush to complete the syllabus.



Exam week is a battle. We walk into the hall armed to the teeth with our suspiciously-acquired gel pens and all-important hall tickets, and emerge after three hours, exhausted and dying to get back to our pillows. The final exam leaves us drained but overjoyed to be done with the semester. Class groups flash with messages bidding farewell to the dreaded Engineering Drawing, and welcoming plans for the semester break.

We swipe our ID cards at the gate for the last time this semester, as we stride out towards the tracks and the bus stand, some with suitcases, some with backpacks, all of us ready to relax and look forward to an eventful year ahead.

FIGURING OUT FEMINISM

It was a serpentine queue. No, my wish sneaked in. I wished it was a queue, but it was a crowd at the water dispenser of a bustling college corridor, with the sun beating down mercilessly at us. It so happened that a group of girls were near the water tap and a few more boys were waiting already. While this was happening, two more girls jumped in from nowhere, jostled their way



to the water tap through the already tired crowd, filled a dozen bottles or so at their own pace, had a chit-chat as if they had all the time in the world, while the boys faked a smile at them and waited.

So, if I have guessed it right, you are thinking, "Why is she exaggerating a petty issue?". This might sound like an insignificant thing to talk about, but let's dig deeper because the smallest of our deeds have the largest of impacts.

Imagine in this case, that a bunch of boys pushed through the crowd. One cannot imagine the plight of the poor souls! Somewhere, between patriarchy and gender equality, we have all become pseudo-feminists. In this fight against patriarchy, we have forgotten the actual meaning of feminism. We have forgotten that we were fighting and should still fight for equality and not to oblige men to say, "Ladies first" all the time.

We are trying to construct this tower of equality, which is being demolished on the other side by our own crew.



Though there is a part of the society where male chauvichauvinism still holds strong, there is also a part where women are respected. We have forgotten them. Considering the fact that at most times men are physically better built than women, society has a soft spot for us. We are on the verge of losing it. Taking this trend of feminism for granted, we are losing the respect that the society has for us.

And don't strong and independent women seek respect?

THE FEELINGS OF A DAY

A stream of warm light
peeps through the curtains
playing hide and seek on my face
and coaxing me to open my eyes.

Morning speaks the language of tranquility.
The sound of the slow bustle surprisingly makes me calm.
The smell of freshly baked bread
wafting through the air
And the gentle rustle of trees against my window
Convince me to get a move on.

A lot of work done
A lot yet to do
Hunger slowly opens its eyes
A small break to watch the world whizz by
A small break to see the sun bright.
Afternoon speaks the language of laze
however for many, it passes by in a haze.
The sun right above our heads
drains us of our energy and drives us inside



Because he says it is the time to be industrious and finish breaks, in a haste.

The sky starts experimenting with colors
Yellow, orange, red, purple
Life slows down, our thoughts go back
to the past, happy and sad
Evening speaks the language of reminiscence.
Memories long forgotten
which shaped our lives and made us
who we are, for better or for worse.
He spreads out his light, far and wide
before escaping from our grasps
And going into the hide.

Out comes his lover,
with her friends, the stars and the clouds
Playing chase and peek-a-boo
Varying the sky's dark, subtle hue.
Night speaks the language of discovery
Of new ideas, originality and creativity
Where in the mind opens its doors
to wandering thoughts from far and beyond.
Which sojourns in our mind
before drifting away like the gentle wind
Making a mark on its way, and in our lives.



"THE WHOLE PURPOSE OF EDUCATION IS TO TURN MIRRORS INTO WINDOWS"

The meaning of the quotation can be interpreted in many ways, but mainly revolves around the whole concept of education and life. Here I discuss the many ways in which mirrors and windows can be assumed in our daily life. These words, uttered by Sydney. J. Harris decades ago are relevant even today to man's life and explain how education plays an important role in our everyday life.

Adding to this quote I would like to put forward two questions: "What is it that already exists in us?" and "Why education is needed to turn mirrors into windows?" The ability and strength to achieve anything from land to sky is what already exists in us. Education is the way towards enlightenment. The basic purpose or need of education is to keep man in a system and allow him to think. Without education man has only a virtual image, quite similar to what he sees in a mirror. Therefore,

For majority of the population, education is simply what they study from books and what serves as a means for providing a livelihood. But the other view of real education is that it lets you see the outer world and socialize yourself with the ideas that are legitimate in the nature of society. Looking back, many great personalities -Thomas Alva Edison, C.V Raman, Mother Teresa, DR A.P.J. Abdul Kalam and others, noticed numerous problems which were affecting our world. They stood up for the society with their new concepts, ideas and humanity because the way they were educated opened up their minds. It made them think for the society, push their abilities and sharpened their thinking. Education in the real sense doesn't mean a race for money or a source of income; it means "living for the society".

Building character and values are also the main goals of education. Whatever we learn develops our character and imbues values in us. In the present world the values that determine one's attitude towards one's family, elders and spouse are declining. The attitude of the younger generation towards the aged and the care given to the aged members of the household have declined drastically. People are (becoming busy) leading their own lives in search of money and missing the happiness that they get from the core values. The number of parents who are sent to old age homes is increasing every year. In a state like Kerala, which has a literacy rate of 93%, there is an increase in old age homes by 69% in a span of 4 years. If there is no value attached to one's parents, then the education one got and the life one leads are meaningless.

Achieving monetary success is not going to turn mirrors (ourselves) into windows (success). Every citizen of the country needs development but how many are responsible to their government by following duties as a citizen? (How many of us waste the food products while there are millions of others starving?)

Everyone wants development but finally money and alcohol decide the results of an election. Everyone needs to understand that as a responsible citizen we must contribute to our country's development. People are divided on the basis of caste, community, religion and many other factors but everyone must understand they are only superficial divisions. Saints with their kind heart see all creatures of God as one. Being kindhearted and remembering that we are all 'mankind' is true education. This leads us through the window called humanity.

Stephen R. Covey remarks, "we see the world, not as it is, but as we are". If we can bring light (education) to bear on the dark corners of egos and feelings (mirrors) we are the one who can open the windows.



K. Rahul Mechanical Engineering Fourth Year

SPILL INK NOW, LEST THOU SPILL BLOOD LATER



It should be hard to argue that we, so called evolutionarily advanced humans, are still no better than our good old ancestors - the apes, if we are downright incapable of diligent communication without being ripped apart to shreds by the demons we hold dear, that is our very own emotions and ego. It is then imperative that in order to complement our boundless intellect or at least to remain aloof of social disaster, we have to single out

the best means of communication, which also translates to making headway towards the next step of humankind.

Let us first do ourselves a favor and not pretend that a bunch of random people can converse verbally, without it ending up in a skirmish of fistfights. Being direct yet dynamically diverse in fields like pace of presentation and assimilation of thoughts, one might as well put up a flashing beacon for our egos to contend (which stems from misunderstandings due to biased mind sets). Since this kind occurs in live time, it has all the capability to fester our loathing, thus spurring lethal consequences. Indeed we're all well acquainted of that one gregariously garrulous person who somehow, single handedly suffices to obliterate the group discussion! So now that is out of question...

The next logical pit stop must then be the ever-engaging field of digital technology. Sure, the globalized world practically ordains texting, surfing the internet and transacting are to be the next necessities. Even though no apparent peril is in sight, one must not fail to discern that we have merely just grazed the tip of a vicious ice-berg. Personally, breakthrough advances in this field seem to be unprecedented headway through unchartered jurisdiction, explosive potential, but well... explosive! And all the same narrow-sighted due to little concern to human health. The real culprit, dastardly low-profiled, called the deep web, is home to the widest mafia network thriving today. So the real question that begs is whether we really hold the reins on the cyber sphere; or is it the other way around?

Hence our pursuit finds its denouement in something that's a tad more static and hence compatible, assertive not to spur emotional violence, requiring no heavy interface to maneuver like digital tech does, profoundly old school, yet very contemporary. You guessed it - it's a primordial procedure fuelled by the modest fluid that flows out of your fountain pen - ink. Literature has prevailed throughout the ages as the prime source of documentation and enlightenment, the very force that sustains the cradle of life across the lineage. From providing material to researchers, to a haven for the bookworms, all the way to teach the way of life as in the Vedas, ink has been

VijeyKumar .S Mechanical Engineering Third Year

BEHIND INVISIBLE BARS

Standing on top of this terrific terrace, I can now see it all.

The park laden with kids gallivanting around in glee,
A fast food joint brimming with tentative teenagers

And middle-aged men in the pub, making merrier with each drink;
All drunk in perpetual pleasure, yet in reality

Behind invisible bars made of candy canes.

Rigged with firmware that mandates having fun.
As opposed to living life of truth and balance,
It saddens me to say, in contemporary society
The rites of passage into adulthood
Is rather a grueling gauntlet run
That veers off course into the ravines.

In her mind is but at the last frontiers of innocence.

She lived and knew nothing lesser than

Pure untainted truth when she was merely an infant;

But just as a flawless piece of art kept to smog

With time, fades into mere splotches of paint,

The girl's mind too is defiled by a steady

Dose of blatant blasphemy, courtesy of society.

Even as she appears snappy and glamorous,

A peek inside her veil reveals the adolescent lass to be

A tempestuous cocktail of incessant insecurities,

A mind so fickle to even the most mercurial whims

And a bandaged-up heart that's more lost

Than a polar bear who chanced upon the Sahara.



VijeyKumar .S Mechanical Engineering Third Year

Probably the smuggest subject, the conceited man,
With an Opulent villa to his name and a receding hairline that follows,
Has his reasons to be continually complacent, complete
With a secure but stagnant source of income.
Locking himself up in a golden cage, he regards not
The inevitable reaper approaching in the distance.

It is said the devil does his darkest deeds
When the mortals' ignorance is at its highest.
As the perfidiously perfect illusion is the one
We don't know we are living in right now;
Similar is the illusion of perennial pleasure,
As much as how a single flavor alone cannot constitute a cuisine.

READ TO LIVE

When you have enormous worlds around you Just escape into them and explore them; But when you are confined within something, Let it be the walls outside you or within you, Just pick up a book and explore the infinite Number of worlds hidden between the pages. You will no longer be confined to anything Instead you will find yourself erasing out From the fake realities into the real imaginations



Bhagyasree .M Aerospace Engineering Second Year

AFTERLIFE

I wonder what we will be without this limited sense of being. without the urge to satisfy the wants of the flesh. Will it have a totally different purpose of existence?

That state of being.

when mesmerizing beauty is admired without possession.

Time is perceived without deadlines.

Where love is transmitted like the rays of the sun.

And not directed by judgment.

A purpose above the perception of good and bad.

What will drive that energy?

I wish if I can go to that level.

Even if I have to succumb to the fangs of death, and return what I borrowed from the core of the Earth. People say 'being alive' is the best justice to existence.

Justice for whom?

To the earth that bred life.

from whom we sucked the last ounce of elixir?

Or the creatures that toiled on to fill our cups of wine?

If death comes with a tight noose,

To step on my chest in defiance.

I will not regret it.

Because if there is no afterlife,

my 'self' will cease to exist.

The only sorrow glooming is that which others possess.

when they sympathize with me.

There is no space for regret to confide in me.

And if there actually is an afterlife,

I will only be too happy to have rediscovered my original state of being.

I believe in that state of being,

there is no war of good over evil.

there is no convincing the conflicting mind to always make the right decision.

to always be profited.

to worry about tomorrow.



There is just action.
Action driven by thoughts,
and no mistakes.
Because intuition doesn't go wrong,
Even else, it doesn't blame.

THE HYMN OF THE CLOSED DAGGER

Stuck up on the wall,
Bloodstains long dried,
Unclean,
But never lost purity of devotion.
Show me to my scabbard after my deeds,
For I need to recite the names of the slain,
None else in this world embraces me in warmth.
For this metal holds the agony of every plea for mercy.

Maneuvers that meant life and death, Sliced throats. Holed through damping hearts, Bathed in spluttering blood. Heard the cries of agony, And the song of death, Song that's unheard by mortals. Watched the soul gaping by a gasp. Quenched the parched earth with blood. I'll endure this and more. For my blade bears thy name. And my hilt felt no other man's grip. My salutations to thee! With victory scars all over your torso. wear me proudly by your hips, For I've only sliced scars of death. On the day I slice a victory scar, May I lay beside you. Cursed by immortality as I am. Be melted in your pyre, Because any other grip is defilement.

I'll stay with you in this form or the next.
When you need me again,
Till then,
Let rust and cobwebs share my time,
Blunt as my blades are,
Sharpen me up for the call of duty.
I am your BLOODYDAGGER.



BEYOND BORDERS

"If we don't end war, war will end us "-H.G Wells

Far, far away, there is a fatal war brewing in the Middle-east, a war beyond any one's control, a war for domination. A war that began as a Civil war now growing to become the seeds of World War III, we know not who will win nor the reward, but what we know is how many are left. The war in Syria dates back to 2011 when Bashar al-Assad the President of Syria had to face a few of his citizens who claimed his government to be dictatorial. This was how the war began, the few people turned into a large rebellious group, a group supported by the Al- Qaeda which formed the ISIS and along with them mighty US fighting against the Syrian Regime and Russia. The war might be very simple while you read, but what you see here is not a war between Bashar and his people but a lurking war from the past, a war between US and Russia. The war between US and Russia in Syria has been the major reason for millions fleeing the nation of Syria. They've lost their homes, many their lives and all their possession not for the nation but in search of peace. When there is no one in a nation, for whom is the war being fought? What humans need is peace and not war.

The world has been seeing the Syrian war as an important war but very little has been spoken on the mainstream media of a war in the south of Middle-East, a war that could bring a catastrophic change to the Middle-East, the war in Yemen.

Something similar to the Syrian war, the Yemeni war too dates back to 2011, a fight for development, a rebellion of deprived and backward communities to seek help. The rebellion that was formed to raise voice against the lack of development in the south of Yemen turned out to be the war that would end Yemen all together. Yemen located between the most powerful Arab nation and the most peaceful Arab nation is currently home to 2.4 million hungry people, 50K cholera patients and a ton of rotting bodies, such is the plight of Yemen. The people there have got nowhere to escape, due to stringent border security and rules in the middle-east. Once again, the war is between the Al Qaeda backed Houthi rebels and the US backed Allied forces of Arabia.

The war is not over yet and what has successfully taken place is the loss of basic human rights. Mankind knows the consequences of war, even then goes on to fight. Today it is Aleppo, Damascus, Sanaa or Aden; tomorrow it could be your city as well. Man, never realizes until he experiences. Just imagine if you were in their situation. We are all humans and see the differences we've created between ourselves. The current state of man is terrible, humanity is at stake. No species on earth would kill its own for matters as trivial as dominance. Only when we unite to live as one, can we maintain harmony.

In favor of humanity.



JUST A DREAM!!!

The hills so high,
the valleys so low.
The wind is cold,
and the mind so bold.
Saw a girl with beautiful eyes.
My heart felt so nice.
Can't get enough of her beauty,
she is definitely a cutey.
I have come hundreds of miles,
she takes me in her smiles.
The sun is rising in the skies,
my heart is capsizing by her eyes.
I heard the birds singing,
but it was actually she who was talking.

We left to the next planned place,
but my heart is still around her space.
Thought I would never see her around,
in the hills which surround.
I felt somebody is playing pranks,
as I saw her again on the banks.
Then I found it was not a prank but luck,
to truly understand that my luck did not go duck.
The water was breaking rocks by gushing,
like she was breaking my bones by blushing.
I smiled, she smiled.
I fell, she fell.
I fell in love,
she fell into my arms.

We had a cup of coffee together, before introducing me to her brother/mother. The gap between our minds became narrow, as the waters in which we were boating became shallow. The moon shined like a diamond in space, when we had a camp fire with a blaze. She crossed the fire's yellow light, her face glowed like a diamond in my sight.

It was time to leave Munnar, and I hoped to see her sooner. I was in hopes, she was in hopes.
I was in hopes that she would be from Coimbatore, she was from Hopes (place).

I returned to Coimbatore, to mark the end of my tour.
25 km distance between us, a bit early, I have to catch the bus. Sunday is the day we would meet, so I have only 6 days to beat. Months passed and the time came, to do what's right without shame. She felt the same way I was feeling, as I proposed to her by kneeling. 'Yes!' was the word I was waiting to hear, before which I had the tension to bear.

TRING! TRING!
TRING! TRING!
Came a loud sound,
from a round object with hands bound.
I woke up to find out it was all just a dream,



K. G. Darshaun CSE Fourth Year

FOR BETTER OR WORSE?

I'm trying not to see you,
I'm trying not to think of you,
I'm trying not to feel your presence,
I'm trying not to cry,
I'm trying not to get nostalgicOf our days together,

...

Of the fun we used to have,
Of our laughs at silly jokes,
Of the silly fights, of the heated arguments,
Of the sweet little things that you told me,
Of how you did things just to see me smile,
Of how protective you were of me,
Of how I felt so much love and warmth,
When I was around you;
Of how we made promises that mattered,
Of how happy and grateful I felt to just be alive.

Of how you gave me a purpose to my life;

Give me good enough reasons for leaving me,

Give me a cure for my wounds and Stitch my broken heart pieces together;

But it's high time for me to move on with my life,

With hopes that destiny has a better plan for me.

With hopes that I meet you, someone like you or even better maybe.

-A Broken Soul

Yet, you were the one who walked away from me,

Who broke all the promises,

You showered love.

Who heartlessly said "Not all promises can be kept and it's okay!",

Who made me open up to you,

Only to make me realize that was a big mistake,

Who made me choke for words,

Who made me cry my heart out,

Who made me feel alone in this world,

Who broke my heart into a zillion pieces,

In a way only you can mend it back together;

You made me build a wall around me,

You made me live for myself,

You made me wary of the wolves like you,

You changed me and this could be for the best;

Maybe I was wrong and you didn't love me so much after all?

Maybe I was the one who loved you so much more and didn't have the nerve to accept it?

Who had a masquerade on?

You in the name of loving me so much?

Me in the name of not accepting that I was in love? Both?

Time has passed and the question still hangs,

Just like my faith that you'll come back to me one day and,

NO CHOICE?

Now that you've left me, I have no other option other than To walk alone in the path we've built together, To go on with my broken heart, And find a new purpose in my life. But it doesn't seem as easy as it sounds; What am I going to do without you? Whom am I living for? How am I going to break my numbness? How am I going to move on in my life? I was going down in this pyre, Thinking that I would be burnt And my life would stop; But I rose stronger than ever from the ashes, realizing, I had my people, my friends and family to fight for, I had people who needed my helping hand, I had people who needed a voice, I had a beautiful world waiting to be conquered, I had everyone believing in me, All I had to do was believe in myself. Believe that I'm not alone. Believe that I can be the change, Believe that I can achieve anything, Believe that I am worth everything, Believe that life will go on, no matter what happens,



S. Pavarakshana Dhevi CSE Third Year

I am THE UNBURNT.

And I will make it better every day.

A Khaleesi



THE STREET PERFORMER

I stood on the road in the rehearsed posture My costume scintillated along with my partners' It started attracting the attention of people on road Slowly, they gathered around us, one by one.

Through a sneaky peak from the corner of my eye
I saw two kids looking at me in awe
A few other older kids who laughed at our clownish appearance
And several adults who whispered at our ponderous props

The drummer began his beats and it was time
Time for our dance rehearsed late into the night
For a wage that would barely feed our families
But feed nonetheless, which was better than inanition.

We dance forward, the crowd moving with us

The cumbersome props have become a way of life
I effortlessly work with it, vaguely hearing the crowd's gasps
As I steadily prepare my mind for the next task.

Three of my partners bring the iron ladder

One of them bring the bottle of kerosene that I was to drink
I gulped a full mouth while I held the fire torch

Spit as I the fire, the crowd backs away to safety

I climb up the ladder held by three

My mouth and skin burned from the stunts with fire

As I reach on top, I get ready to balance myself

By now, I hear nothing but the sound of my ragged breathing

I look ahead into the city from the ladder
A few dull streetlights and darkness looked back at me
But for a second I swear I could see my family
Like in a movie screen, grinning at me

My wife was smiling yet I could read the melancholy in her eyes My son was overjoyed with a small toy car And next to them, I saw an empty pot There was no food to cook; they were waiting.

The money I make today will feed them

The laughing and scared faces that stood below me Are entertained by me, I'm sure but Will they ever know?

Will they ever know that if I die today
They've got nothing to lose, but me? Everything.
My wife and our Son, the dreams we have for him
The dreams which are clinging on a fragile rope.

I stare ahead into nothing on my abdomen

On the fly section of the ladder doing what I have to,

For now it dawned that I am the fragile rope

That holds the dream alive.



SHATTERING THE GLASS CEILING OR SOCIETAL TRANSGRESSION

March 8, 2018; the world celebrated International Women's Day as an approbation to the women who make and sustain the various facets of the human population. We had all seen a great deal of venerable celebrities and a plethora of exalted brands plastering the common online, print and visual media with a frenzy of their wishes for women.

So naturally, you get this idea of "women for the win" and "how it's still a long way for women". Gender equality, or feminism, as we understand, is, simply put, bringing a gender to the same level of opportunities, appreciation and absorbency into corresponding workforces as the other. That being said, as several social growth indicators show that it is women who are deprived of most of these, it is only apposite that we work in favour of women. This movement has also garnered the support of governments, and eventually, laws have also been set up to aid women in crossing such barriers. The efforts by lots of groups and recognized institutions in this regard are also quite laudable.

But what doesn't catch your eye is the downside of how a certain, newly evolved, feminazi cult of the society finagles people without going against any law. As feminism reaches new heights, empowering and bringing up women from varied social strata, one cannot simply overlook how certain people imply feminist ideologies with wrong connotations. So you tell me that it is all fair and well, if a woman must be left to her will regarding her education and career goals, and it is justifiable to expect her spouse to pursue a well-paying career? Or that it is alright when a healthy woman refuses to give up her seat in a bus for a frail, old man? Or how about the time when someone told the lanky-looking guy next door to "man-up"? Aren't all these situations familiar to us? What would happen if the genders were swapped in all of these

said situations? An uproar would ensue, no doubt about that. It is in these scenarios that a person who truly believes in gender equality should rise to the situation and act accordingly. Gender equality definitely does not recommend that women be favoured "over" men. Nor that they be given a much higher status than men. Nor that they escape being reprimanded for their wrongdoings just because they're women. They should be seen equal in the eyes of law.

Moreover, feminism is not just about committing to treating both genders without disparity; it is also about being inclusive of women from all walks of life, ensuring that one woman does not put another down or deprives her of her rights, just because one happens to have quite a cachet. Women from different ethnicities, differently



Aiswarya Sunil
Aerospace Engineering
Second Year

abled women, women from economically unstable backgrounds, all need to be accommodated for wellness and development. Indeed, it is rightly quoted by Victoria Principal,

"When women work together, it's a bond unlike any other."

So while we seek to shatter the glass ceiling, we must actually make attempts to focus on the big picture, like bridging the gender pay gap, assisting minority women in in advancing in their workplaces, and the like. It is our responsibility to repudiate any ventures that fail to consider all such aspects of equality. Unless we do so, we would end up causing human discord and societal transgression.

NIGHT STUDY

In the long-lasting nights
Paper pages surrounding you
Struggle of pupil with the man-made light
And jealous of the slumbering folks
Amidst the howling stray dogs
Whistling Gurkhas
Some strange hiss, engulf you with
the nature of darkness
Ultimately the only solution is
Back down to sleep with the
pillow of bundle pages.



HOSTEL

I've given you warmth and comfort But every time, I invite you to stay a little longer. You'd tell me you need to go Now I know what that meant, "I am just your shelter but never your Home".

BED TIME

The ceiling was my perfect sky The fan was my perfect sun The blazing blades were the rays I stared and I stared and I stared. With happiness at the false sun.

Thereka Shanmugam Aerospace Engineering First Year



SOME DAYS

some days.

you just do not

want to be the sun.

Some days, you may not want to be a horizon; awash in the gentle hue of each morning's new born blue, drenched in a dawning golden glow, the crown of the rising sun. Some days. you may not want to be the sunshine softly slanting on the windowsill: stealing its way into frozen hearts, stirring broken spirits again afire—

SOUTH in a world where everybody needs you to be their summer, Some days,
you may wonder
if the colours you choose to drape
are not those of the flames
that have never failed
to hold your admiring gaze;
but those of autumn's leaves,
so mesmerizing in their brilliance,
we see not the leaves which lie dying,
their last breaths shuddering on their lips,
but only this mask of painted colours,
of shimmering copper and glossy amber,
hiding the deep weariness that lines autumn's face,
the dark circles beneath the flawless facade.

Some days,
you do not want
to be the sunflower
forever chasing the sun's embrace, in vain,
driven to madness by its relentless craving;
that which is always just out of reach,
that which will always slip through its fingers.
Some days,
you refuse to let go
of the vivid fantasies
that taunt you in the darkness
of your unconscious mind,
the wistful fancies
of a life that seems better
than it ever has with open eyes.

Some days,
YOU JUST WANT TO STAY IN BED.
You want to BURY YOURSELF,
Somewhere the light WILL NEVER REACH,
Somewhere the light WILL NEVER TEMPT
WITH FALSE PROMISES,
EVER AGAIN.
YOU WANT TO BE THE EARTH, DEAD
beneath winter's shroud of snow.

But her chest rises and falls to her breath's whisper; under these blankets of snow,



the earth is only in deep slumber.

Deep within is not an extinguishing silence but a gentle stir; within her womb, the whole world is asleep, dreaming. Beneath her closed lids, even as her eyes rove her blissful visions of blooming flowers, she is waiting.

For the day the strength she once had will come back, for the day her vitality will surge again through her limbs, revived. For the day she will arise from her ashes into stormy valleys and raging forests and roaring oceans and all the majesty of the million creatures that walk upon her paths, with heads high.

Know that she is a goddess, mighty as she moves the universe in this ceaseless cycle with her eternal dance.

And know that you, too, can make this world shake with the mere sway of your dancing feet.

Know that you, too, will always awake into springtime in all its glory.



STEPHEN HAWKING (1942-2018): A POETIC TRIBUTE

He stepped out into the world, back straight, head held high with youthful pride.

He made heads turn with his sparkling wit, dazzled by his brilliant mind.

So lost were they in the allure of the promise that simmered within, so drunk was he on the blissful belief of his own invincibility, no one noticed the omens of ill to come. When his step, once certain, began to slip, his foot refusing to stand firm on the ground.

When his words would spring as fast as thought from his lips.

but lose themselves in the confusion of his own tongue.

When a relentless tremor crept up his body, inch by inch.

refusing to let go, and left him shivering like a leaf in the wind.

No one noticed, not even he.

Until that day he began to stumble.

Again and again did he trip over his steps,

betrayed by his own feet.

And each time, harder and harder did it become

to pull away from the grip of the cold hard ground.

A terrible judgement was made upon his life,

he was fated to live just two years more.

Condemned to have his command ripped from his will, from limb to limb,

to have his body stolen cruelly away from him.

Until he cannot put his pen to paper,

until he cannot spin his thoughts into spoken words.

until he cannot even drink of the air that we so desperately thirst for each day.

And his world came crashing down around his ears,

the ground seemed to crumble from beneath his feet.

He was swallowed by the depths of despair;

in the darkness, monsters gnawed away at his heart.

Cheated, by the cup of life that dangled in front of him, tantalising,

but was snatched from his lips before he could even savour its taste.

But even in what seemed like the darkest depths of despair,

a single ray of light shone like a beacon through the darkness.

The one he loved stood steadfast as an anchor

in an ocean of misery that threatened to sweep him away.

He was consumed by a burning desire, a desperate need eating him alive,

to live an entire lifetime, in the few days left that he had.

He became husband to his wife, as they together swore

to find eternal love in the eternity that they couldn't have.

He set about finding an answer

to the question of the beginning of the universe.

for he did not want to think of the question of his life's end,

to which the dreaded answer seemed to fast approach.

He poured himself, heart and mind and soul,

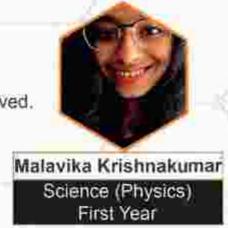
into the Physics that was his beloved.



And soon, he made everyone know his name.

Today, he has become immortal.

All these years, he had not just survived, but he had thrived. He may have left behind his mortal coils, but as long as his memory does not fade from our minds, in our hearts, he will always stay alive.



HUSH

He lies in the bed. Still. More still than he has ever been his entire life.

His eyes, once sparkling with the brilliance of the million questions that sprung without end from his rapid train of thought— now veiled by the darkness of his eyelids.

His skin, once aglow with the flush of youth, the colours of sunrise— now drained of blood, the colour of ash.

His chest, barely lifted by the air that whooshes in and out of his nose; his breath, only a whisper.

And a man stands over the bed. His fingers twist together, over, and over again. His heartbeat drums against his ribs, his insides are searing and he cannot breathe.

And it is now, for the first time, that it occurs to him— the boy in the bed is just that a boy.

The one who had dispelled the impenetrable gloom that once clouded every waking moment of his life; his constant companion throughout these golden years of his life, the one reason these years had started to matter to him— just a little child.

It wasn't that he'd never noticed before. There had always been a tiny part of him that realised just how young the boy was— that feared for every scrape that he got into.

But it was always so hard to keep it in mind, not when he had always been so burstingly full of life— wild with energy, alight with enthusiasm, burning with curiosity. Not when his legs never tired of running, not when his mind never stopped its relentless drive to probe the secrets of whatever intrigued his searching gaze.

He'd always seen the kid as something else altogether: the invulnerable, the unstoppable, the irrepressible. Like a wildfire, like a battering ram— he would tear through whatever barriers stood in his way. He was not just a boy— he was a force of nature. Even if he ever faced death itself, he'd be holding his head high, looking it in the eye invincible, unconquerable.

Never before had there been reason to notice the slightness of his stature. Never before had there been reason to notice the rather babyish features of his face— or that ridiculously juvenile tuft of hair that always stuck up from his head.

But now, with him curled up under the sheets, with his lips puckered and a little crease between his eyebrows and his eyelashes cast tightly down on his cheeks, the truth is:

He has never looked so small.

And now— he lies here, as still as almost death itself— and it feels so unreal, so unnatural, so terribly wrong. As though the sun has finally stopped rising, as though the stars have finally stopped shining. For he was the last person you could ever imagine to be shrouded in this inexplicable stillness.

But then, the man supposes, sooner or later, every soul on earth is consumed by this irrevocable silence, everybody is befallen by the stillness of death.

And he can only pray that there is time yet for the kid.

Malavika Krishnakumar Science (Physics) First Year





வாழ்க்கையை வென்ற கணம்!!!!!!

குழந்தையின் முதல் கதறல் கேட்டு மகிழும் அம்மாவின் அன்பு... உன் அனைத்து முயற்சிகளுக்கும் தோள் கொடுக்கும் உன் தந்தையின் பாசம்... எதற்காக அழுகிறாய் என்று அறியாமல் பள்ளிக்குச் சென்ற முதல் நாள்... அன்பை மட்டும் எதிர்பார்த்து உன்னுடன் வாழும் நான்கு நண்பர்கள்... ஏன் எதற்கு எப்படி என்று தெரியாமல் உன்னில் மலர்ந்த முதல் காதல்... காதலின் அர்த்தம் புரியும் வயது... வாழ்க்கையில் முன்னேற வேண்டும் என்றெடுக்கும் முயற்ச்சி ... உன்னில் சரிப்பாதியாய் உறவாட வரும் துணை... உன் குழந்தையைக் கையில் ஏந்தும் நொடி ... மீதி வாழ்க்கையை வாழ்வதற்க்கான காரணம்... உன் சிறுப்பிள்ளைக் காலங்களைக்காணும் காட்சி... பணமின்றி மனம் அடையும் மகிழ்ச்சி ... அறுபது வயதில் உன் துணையின் கைகளைப் பிடித்து நீ இன்றி நான், நான் இன்றி நீ என்று சொல்லி RASHMIKA C.K உயிர் துறக்க விரும்பும் கணம் ECE வாழ்க்கையை வென்ற கணம்!!! Second Year

அன்புள்ள அம்மா!

அம்மா..... முதன்முறை உன் முகத்தைப் பார்த்த நினைவுகள்.... அதை வர்னிக்க என்னிடம் இல்லை வார்த்தைகள்.... வெகு நாட்கள் கழித்துப் பார்க்க வருகிறேன் உன்னை.... உன்னை பார்க்கும் போது வரும் சுகத்துக்கு இல்லை, ஈடு இனை.... ஒவ்வொரு சனி ஞாயிறும் நான் வருவேனென்று எதிர் பார்த்துக்கொண்டிருப்பாள்.... என்னை பார்த்ததும் ஆனந்தத்தில் மிதப்பாள் , எதோ அந்த சொர்கத்தையே சென்றடைந்தவள் போல....



நண்பன்

நண்பா, உன்னை நான் என் இதயம் என்று கூற மாட்டேன் , ஏனென்றால் உன்னை நான் ஒருபொழுதும் துடிக்க வைக்க மாட்டேன்.





அழியும் (க)விதைகள்

இனி உதிக்கயிருக்கும் உறவுகளுக்கு!! அளித்திட்டோம் நாங்கள் விழி காணும் உலகெங்கும், மாசற்ற 'வாழ்விடம்' வந்திடும் உன்கனா எங்கும்; அன்போடு எந்திரம் உரையாடும் உன்னிடம்;

ஆழி தன் கொந்தளிப்பில் அமிழ்ந்திடும் அண்டமும்; அழிச்சாச்சு அனைத்தையும் மிச்சமின்றி நிலத்தையும்; மனமற்ற எம்மிடம் எதிர்பாராதே உணவையும்; உன் விழிகாணும் நிலமெல்லாம் யாம் படைத்தவான் வெளிகள்; உணவாய் பூச்சிக் கொல்லியும் உறுதுணையாய் மாத்திரையும் உடலுறுப்பாய் நோய்களும் உன்னோடே வாழ்ந்திடும்; உதைக்காதே இயற்கையை எவ்வளவு தான் அதுதாங்கும்! மரமழித்த – மரபழித்த எமது செயல் செய்ந்நன்றிச் செயலல்லோ?? மழை தானும் வெள்ளமாய் உன் மூத்தோர் செயல் விளைவே செயற்கை வாழ்வி துவே; சொல்விதை தொலைத்த கவி நிலம் எம் வாழ்வு.

துளிர்க்குமா உம்மூச்சினில்?





சிரியா இரங்கற்பா

நெடுங்காலம் மழைபொழியா சிரியா வானம் நித்தம் குண்டுமழை பொழிந்து தள்ளியது இடி முழங்கக் கேட்காத சிரியாவின் காதுகள்

இடி முழங்கக் கேட்காத சாயாவான காதுகள் வெடிகுண்டு முழங்கக் கேட்டுப் பதறியது

சுடுவெயிலின் சூட்டுக்கு அஞ்சி வீட்டுக்குள் சுற்றித் திரிந்த சின்னஞ்சிறு பிள்ளைகள்

கொடுங்கோலனின் தோட்டாக்களுக்கு அஞ்சி இன்று பதுங்குக் குழிகளில் பதுங்கி வாழ்கிறார்கள்

மடங்களின் தலைவனான கடவுளும் கேட்கவில்லை 'வன்முறைத் தூண்டியவன் எந்தப் பிரிவு?' என்று

உடல்களைத் துளைத்த தோட்டாக்கள் கேட்கவில்லை 'உயர்ந்த பிரிவு எது?தாழ்ந்த பிரிவு எது?'

திடல் தோறும் கிடந்த பிணங்களில் தெரியவில்லை 'மேல் பிரிவு எது? கீழ்ப் பிரிவு எது?'

சடலங்களைப் புதைத்த மண்ணும் கேட்கவில்லை 'சன்னி உடல் எது?ஷியா உடல் எது?'

இலக்கிய ஏடுகளே! - நீங்கள் இரங்கற்பா எழுதுங்கள்

உலக நாடுகளே! - நீங்கள்

ஊமைத்தன்மை விடுங்கள்

கலகத்தைத் தூண்டியவர்களே! கருணை காட்டுங்கள்

ஐக்கியச்பையே! - கொஞ்சம்

அமைதி நிலவச் செய்யுங்கள் .

SARANPANDIAN EGE Fourth Year

"சிறகு போதும், வானம் எட்டிவிடும் தூரம் தான்!"

இத்தலைப்பு, என்னுடைய உள்ளுணர்வை மிகவும் தூண்டுகிறது. நம் வாழ்க்கையை பொறுத்தவரை, நம் அனைவருக்கும் ஒரு பொதுவான குறிக்கோள் உள்ளது. அது, பெரும்பாலும், "ஒரு நல்ல வேலை கிடைத்து, வாழ்வை பயனுற வழிநடத்த வேண்டும்" என்பதே ஆகும், அவ்வொன்றையே நம் மனதில் நிலைநாட்டி, "வாழ்க்கை எனும் சக்கரத்தில் நாம் ஓடிக்கொண்டிருக்கிறோம்".

எதற்காக இப்படி ஓடுகிறோம் என்று நொடி நாம் 60 (T) சிந்தித்துப்பார்த்தால், சமுதாயம் எனும் போர்வை, நம் அனைவரின் கட்டி, நம்மை நடைப்பிணம் ஆகிவிட்டது கைகளையும் உண்மையை அறிய முடியும். ஒரு தாய், கருவுற்றிருக்கும் பொழுது அவளின் சிந்தனை, செயல் ஆகிய அனைத்திலும் இருப்பது அவளின் சேய் தான்!. தன் குழந்தை இச்சமுதாயம் போற்றும் வண்ணம் திகழ வேண்டும் தலையாய் நோக்கமாக அவளின் இருக்கும். "இச்சிந்தனையை அவள் ஆழ்மனதில் புகுத்தியது யார்?" சிந்தியுங்கள் ...சிகரம் தொட…!

ஒரு நல்ல வேலை அவசியமெனில், அதற்கு கல்வி அவசியம். ''காற்றோர்க்குச் சென்ற இடமெல்லாம் சிறப்பு'' என வள்ளுவன் கூறிய வாக்கு கல்வியின் இன்றியமையாமையை வெளிக்கொணர்கிறது. எனினும், ''உலக வரைபடம் போல, நம் வாழ்க்கையை வரைந்து வைத்துக்கொண்டு காத்திருக்கிறது இச்சமுதாயம் நம்மை வழிநடத்த!'' இக்கூற்றின் மூலம் நம் வாழ்க்கை நம் கையில் என்ற வாக்கு தன் சக்தியை இழக்கிறது!

யார் வரைந்த படம் இது? நம் வாழ்க்கையை வாழ நமக்கு உரிமை இல்லையா? எதற்காக நாம் தலையாட்டி பொம்மையைப் போல எவனோ ஒருவன் வரைந்து வைத்த சித்திரத்தில் நம் கால் தடத்தை பதித்துக்கொண்டிருக்கிறோம்?

'' உன் வாழ்க்கை சித்திரத்தை நீ எப்பொழுது வரையத் தொடங்குகிறாயோ அப்பொழுது தோடுவாய் நீ வானத்தை!'' சித்திரத்தை வரையும் இறகு போல…

பணம்,கல்வி, வேலை இவையனைத்தும், நம் வாழ்வில் இன்றியமையாத

முறையும்,நேரமும் உன்னுடையது. பிறர் வகுத்த கோட்டில் நீ வாழதே! உனது வாழ்க்கைக்கோட்டை நீ வகுத்து, அதில் தெளிவுற செயலாற்றினால் வெற்றி நிச்சயம்!

கடவுளின் படைப்புகளில் இன்றும் இன்றியமையாத ஒன்று, இயற்கை! "நீ இயற்கையோடு இயைந்துப் பார், அதுவே உனக்கு எண்ணற்ற பாடங்களை கற்பிக்கும்". சமுதாயப் போர்வையை தூக்கித்துடைத்து வீசிவிட்டு உனக்கென தனி உலகை உருவாக்கு! அன்று இவ்வுலகின் அரசனாவதன் மூலம், நீ உயர்ந்து நிற்பாய், வானை நோக்கி!

காந்தி, பெரியார், காமராசர் ஆகிய பெரும்தலைவர்களைப் பற்றி நீ படித்திருப்பாய், கேட்டிருப்பாய், உன் சிந்தையில் நிச்சயம் "அவர்களைப் போல்" வாழ்வில் உயர்ந்து நிற்க வேண்டும் எனும் எழுச்சி பொங்கியிருக்கும், அதை உடைத்தெரிந்துவிட்டு, "நான் தலைவன் நான் உயர்ந்து நிற்பேன்!" என்று உன்னுள் நீயே கூறிப்பார், நீ உயர்வாய்! எனவே, உன் எண்ணம் போதும் நீ உயர!

வரைக்கோவின் இறகு ஆற்றிய ஓவியம் , அது வரையும் உனது வாழ்க்கைக் காவியம்

எனில், இறகு என இக்கூற்றில் குறிக்கப்படுவது யாதெனில், உன் நிலை தெரிந்து, தளராமல், நீ வகுக்கும் உன்னுடைய வாழ்க்கைப் பாதை தான், மற்றவன் சொல்லினால், நீ துன்புறுகிறாயா? கவலை கொள்ளாதே! அந்த சொல்லை உன் வாழ்க்கைச் சித்திரத்தில் ஒரு அடிக்கல்லாய் நட்டு முன்னேறு!

''சிந்தையேனும் உள்ளத்தில் ஆற்றல் பிறக்க, நீ வா! இவ்வுலகை விட்டு விண்ணில் பறக்க, சிறகெனும் வரைக்கொல் செய்யும் விந்தையை நீ அறிவாய் இவ்வுலகம் சிறக்க…''

எனவே, எதையும் உன் வாழ்வின் தூண்டுகோலாய் ஏற்று முன்னேறு! வெற்றிபெரு!! நினைவு கொள் மானுடனே! "சிறகும் ஒரு தூண்டுகோள் தான்".

> KANIMOZHI N. R CSE Second Year

யாழிசை!

யாழ் மீட்டும் விரல்களைப் போல உன் வீட்டுத் தேவதையோயென்று உனை நினைத்து நான் கவிதையெழுதிட யாக்கை சிலிர்த்ததடி உன் சிரிப்பானது மழையாய்ப் பெய்திட கோபமோ, அது கனலாய் எறிந்திட இதற்கு இடையில் என் காதல் காற்றோடு கலந்திட யாழிசையொன்று காதில் விழுந்ததடி யாரென்று நான் கேள்வி எழுப்ப யாமென்று உன் உதடுகள் பதில் அளித்ததடி



RAHUL SREE KUMAR
Mechanical Engineering
Third Year

பிறப்பா? இறப்பா?

சிரிப்பு சிந்தும் ஆயிரம் முத்துக்கள் கண்கள் கூறும் கணக்கிலடங்கா கனவுகள் வார்த்தைகள் தரும் பல வண்ண வானவில்கள் ஆனால் மனம் ஏனோ மழலையாக மூன்று வயதில் மூளை வளர்ச்சியில்லை என்று ஏதோ ஒரு தெருவில் அனாதையாக நிற்கும் அந்த ஒற்றை நாற்றாய் இந்த உலகத்தில் நான்!! கருவில் இருந்த போது என்னை பூமியைப் போல் தாங்கிய அவள்! (தாய்) கருவுற்ற போது என்னை எப்போது காண்பேனென்று ஏங்கியவர்! (தந்தை) என்னை சுமந்தவளை கருவில் சுமந்த இவள்! (பாட்டி) வயிற்றில் சுமக்கும் இவளை நெஞ்சில் சுமந்த இவர்! (தாத்தா) அனைவரும் எதிர்பார்த்த என் வருகை....

பத்துமாத காத்திருப்பு முடிய பனிக்குடம் உடைந்து வெளியேறி கால்கள் தரையில் படும் முன்பே என்னை வேண்டுமென்றவர்கள் வேண்டாமென்க இதோ இங்கேக் குப்பைத் தொட்டியில் மூன்று மணி நேரமே வயதான பெண்ணாக நான்!!! கற்பழிப்பும் வரதட்சணயும் பாலினமும் இப்படி எத்தனைப் பேரை அனாதைகள் ஆக்கியதோ!!



Third Year

திரைக்கடலோடி திரவியம் தேடிய தொழிநுட்ப -வணிகப் பெருங்குடி தேடி....

இரைச்சல் உருளையில், நேரமற்ற இயந்திரங்கள் புற்றீசல்களாய்ப் பறக்க, மண்ணுக்கடியில் கண் காணப் பிச்சை கேட்டு தம் அழுகை நீரால் காத்துக்கொண்டு இருக்கிறது ஒரு நதிக்கரை நகரம், தம் தாய் நதியை.

காலம்: கி.மு. 4 ஆம் நூற்றாண்டு முதல் கி.பி. 2 ஆம் நூற்றாண்டு வரை

அமைப்பு:

திருப்பூர் மாவட்டம், ஊத்துக்குளியிலிருந்து சுமார் 9 கிமீ தூரத்தில், காவிரி ஆற்றில் கலக்கும் நொய்யல் ஆற்றின் வட கரையில், சேரத் தலைநகரமான கரூரை, மேற்குக் கடற்கரையுடன் இணைக்கும், கல்வெட்டு கூறும் கொங்கப் பெருவழியில் (கத்தாங்கண்ணி, சூலூர், வெள்ளலூர், வேலந்தாவளம்) கொடுமணல் அமைந்துள்ளது.

இலக்கியச் சார்பு:

சங்க எட்டுத்தொகை நூல்களுள் ஒன்றான பதிற்றுப்பத்தில்

"கொடுமணம் பட்ட வினைமாண் அருங்கலம் பந்தர் பயந்த பலர் புகழ் முத்தம்" - கபிலர்

பொருள்: "கொடுமணம் என்னும் ஊரில் உண்டான தொழில் மாட்சிமைப்பட்ட அரிய ஆபரணங்களையும், என்னும் பந்தர் ஊரில் விளைந்த பலரும் LJ 5 कंग முத்துக்களையும்" பண்டைய தென்னகத்தின் ரோமானிய வணிகத்தை பட்டினப்பாலை முதலான நூல்களும் ptolemy



போன்ற யவன அறிஞர் குறிப்புகளும் விவரிக்கின்றன. ரோமானிய, மத்திய கிழக்கு, சீன நாடுகளுக்கு சேர இரும்பு (seres iron) உறுதி தந்ததை அவ்விலக்கியங்கள் எடுத்தியம்புகின்றன.

மீட்பு அகழாய்வு:

இக்களம் 1961 ஆம் ஆண்டில் புலவர் செ.இராசு, செல்வி முத்தையா ஆகியோரால் கண்டுபிடிக்கப்பட்டது.

1985, 1986, 1989, 1990 ஆகிய ஆண்டுகளில்

தஞ்சை தமிழ்ப் பல்கலைக்கழகம் , சென்னைப் பல்கலைக்கழகம் ,தமிழ்நாடு அரசுத் தொல்லியல் துறை , ஆகியன இணைந்து நடத்திய ஆய்வில்

48 அகழிகள் மற்றும் 13 பெருங்கற்கால (megalithic) கல்லறைகள் கண்டுபிடிக்கப்பட்டுள்ளன. தமிழ்நாடு தொல்பொருள் ஆராய்ச்சி நிறுவனம் 1998 மற்றும் 1999 ல் மேலும் 15 அகழிகளைக் கண்டுபிடித்தது. இத்தொல்லியற் களம் 50 ஹெக்டர் வரை பரந்துள்ளது. 2012 – 2013-ம் ஆண்டுகளில் மேற்கொண்ட அகழாய்வுகளில் மணிகள் தயாரிக்கும் தொழிற்பட்டறை போன்றன கண்டறியப்பட்டன.

வட்டக்கல் அமைப்புக்களும் (cairn circles) , நினைவு குத்துக்கற்களும் (menhirs) ஆகியன இன்றும் இயல்பாகக் காணக்கிடைக்கின்றன. புலி -வெண்கலச் சிலையும் , பன்னாட்டு நாணயங்களும் கிடைக்கப்பெற்றது.

செழிப்பு:

உழவு சார்பற்ற நிலமாய் அமைந்தும் வணிகப் பெருநகரமாய் தழைத்துள்ளது.

இந்த அகழாய்வில் இரும்புக் கருவிகளான கத்தி, வாள், ஈட்டி, கேடயம், மணிகள் (beads), அங்கவடி (horse - stirrups) (இன்றும் அந்தியூர் குதிரைச் சந்தை ரோமானிய வரலாறு பேசுகிறது) ஆகியனவும், கார்னீலியன் (carne -elian), அகேட் (agate), ஜாஸ்பர் (jasper), (sapphire- சிவன்மலை),பெரில் (beryl- பாடியூர்), பளிங்கு (quartz), லாபியஸ் லசுலி (Lapius Lajuli), ஆகிய பல்வகை மணியணிகளும் கண்டுபிடிக்கப்பட்டுள்ளதில் இருந்து இவ்வூரின் வணிகச் செழிப்பு விளங்குகிறது.

புவியியல் ஆய்வில், கல் – கனிம போக்குவரத்து பேராச்சிரியத்தை ஏற்படுத்துகிறது. இரும்பு சென்னிமலையிருந்து கொண்டு வரப்பட்டது. வெங்கமேடு (quartz mount) எனும் ஊர் இன்றும் உள்ளது.

பன்னாட்டு மானுடவியல்:

வண்ணப்பூச்சு (russet quated) கொண்ட மண்கலங்கலில் எழுத்துப் (தமிழ் பிராமி/தமிழி/ தமிழ்) பொறிப்புகள் காணப்படுகின்றன.

கருப்பு-சிவப்பு, கருப்பு நிறம் கொண்ட சங்ககால மண்கலங்களுடன் ரோமானிய மண்கலங்களான அரிட்டெய்ன் மற்றும் ரூலெட் பானை ஓடுகளும் கலந்து காணப்படுவது தமிழ்ப் பண்பாட்டுடன் யவனப் பண்பாட்டின் இணைப்பை விளக்குகிறது. யோக நிலையில் ஒரு எலும்புக்கூடும் கண்டறியப்பட்டது.

அக்காலத் தமிழ்ப் பண்பாட்டோடு பிராகிருத மக்கள் தொடர்பு இருந்ததற்கான பல சான்றுகளும் (காட்டாக: நிகம, விஸாகீ) பானை எழுத்துப் பொறிப்புகள் அளிக்கின்றன.

அறியப்பட்ட பொறியியல் நுட்பங்கள்:

- * செம்பு உருக்கும் ஊது உலைகள்
- * மணிகள் செய்யும் தொழிற்கூடம்
- * சங்கு அறுத்தல் பணியை செய்யும் தொழிற்கூடம்
- * நெசவு தொடர்பான பணிகளை செய்யும் தொழிற்கூடம்
- * இரும்பு எஃகு பொருட்களை செய்யும் தொழிற்கூடம்
- * வட்ட வடிவில் பெரிய அளவிலான இரண்டு இரும்பு உருக்கு உலைக்கலன்கள் (crucible furnaces - 112×110×20 (in cm) - செயல் நிலை 1300°C). கரிமம் (carbon) அவரையில் இருந்து எடுக்கப்பட்டது.
- * இவற்றில் உருவாக்கப்பட்ட pig iron-ல் இருந்து மெருகேற்றப்பற்ற wootz steel ரோமானிய எகிப்திய நாகரிகங்களில் பயன்படுத்தப்பட்டன. இவற்றை Pliny the Elder, Periphlus ஆகிய ரோமானிய வரலாற்று அறிஞர்கள் (seres iron சேர இரும்பு) என்கிறார்.
- * வாள் முனைகள் ஈராயிரம் ஆண்டுகள் ஆன பின்னும் துருவரிப்பு (rust) ஏற்படவில்லை, இதற்கு ஓளவை அதியமான் மீது பாடிய புறப்பாடல்(95) ஊடு சேர்க்கிறது, அதன்படி காவிக்கல்(red ochre) - நெய் கலவை (ceramic coating) பயன்படுத்தப்பட்டிருக்கலாம்.

சனவரி 16, 2018 -ல் இருந்து அடுத்த கட்ட ஆய்வை ஆறு பேர் கொண்ட ASI குழு தொடங்கி உள்ளது. ஏப்ரல்-மே மாதங்களில் பெருஞ்செய்தி வர வாய்ப்புண்டு. அதேநேரம், அத்தகைய நொய்யல் நதி இன்று, இன்றைய சமுதயத்தின் சுயநலத்தால் சாயக் கால்வாயாய்ப் பயன்படுத்தப்படுகிறது, எதிர்காலத்தில் நதி காணா வாழ்வியல் உண்டோ , அறியோம். "நதிக்கரை நாகரிகம் நொய்யல் ஆற்றுப் பரம்பரை டா" என உரக்கப் பாடும் இளைஞர் சக்தி ஆற்றையும் நாகரித்தையும் மீட்டெடுக்குமா?

"கொடு மணம்" வீசி அள்ளிக் கொடுத்த வணிக மாநகரம், "கொடும் மணலே" மீதமாய் நிற்கிறது.. வரலாறு தமிழ் பேசட்டும், உயிர்

இருப்பின்.

ILAM BHARATHI Mechanical Engineering Second Year

எதை நோக்கி

ஒரு சிறிய குழந்தை முதல் முதியோர் வரை சில கொள்கைகளை இரசிப்பர் , பிறந்த குழந்தைக்கு முகம் மறைத்து விளையாடுவதில் ஒரு மகிழ்ச்சி , மண்ணில் மலை செய்வதில் ஒரு மகிழ்ச்சி , இளையோருக்கு நண்பர்களுடன் பேசிட விருப்பம் , முதியோருக்கு மழலைகளைக் கண்டாலே ஆனந்தம். ஆனால் இவை எல்லாம் கடந்த தலைமுறைக்கே பொருந்தும். மழலையர் மாறவில்லை, ஆனால் சிறார் தொலைக்காட்சி சிறையில் சிக்கிக் கிடக்க , இளைய தலைமுறை இராப் தொலைபேசியோடு பெரியோர் தத்தம் உலாவ பகலாக வேலைப்பளுவால் வெந்திட , முதியோரெல்லாம் முதியோர் இல்லத்தில் முடங்கிக் கிடக்கின்றனர்.

ஏன் இந்த நிலை? எதை நோக்கி ஓடுகிறோம். நம் வாழ்க்கையில் பணம் பணம் என நகர்கிறோம். எதற்கு? நம் வாழ்வை மகிழ்வுடன் கழிக்க. ஆனால் ஓட்டத்தில் மகிழ்வை மறந்து பணப் பாழ் கிணற்றில் விழுந்துவிடுகிறோம்.

அத்தியாவசியத்திற்கும் ஆடம்பரத்திற்கும் உள்ள வேறுபாடு அறியாதவாறு அடக்கி மழுங்கடித்துள்ளனர். எல்லாரிடமும் இருக்கிறது உங்களிடம் இவ்லையா என்று பேசி மக்களை யோசிக்காது வாங்க வைக்கின்றனர்

அதேபோல் வாழ்வின் ஒவ்வொரு அங்கத்திலும் ஒன்றன் தேவை , ஏன் செய்கின்றோம், எதை நோக்கிப் பயணிக்கிறோம் என்பதறிந்து செய்ய வேண்டும். முடிவில் மனநிறைவும் மகிழ்வும் தான். போலியில் வாழாது நிறைவான வாழ்வை தெளிவான குறிக்கோளோடு வாழ்வின் பயணத்தைத் தொடர்வோம்.





சோறு

உழவனின் வியர்வையில் வேளாண்மைத்தாயின் மகளாக நெற்கதிருக்குப் பிறந்த மணிமுத்தே !

பழையன களைந்தெறியும் இவ்வுலகில் நீத்த நீராய் மாறி, தேனாய் மருந்தாய் விளங்கும் விந்தையடி நீ !

அப்பாவின் வியர்வை வாசத்தில் அம்மாவின் கைபட்டு , அமிர்தமாய் இனித்தவள் நீ !

ஒருவேளையேனும் உனை புசிக்க ஒற்றைக்காலில் பலர் தவம்கிடக்க - பாவியாய் உனை படுகுழியில் இடுவதும் ஏனோ ? கட்டுக் களமும் கதிர்உழக்கு நெல்லும் ஏர் கலப்பையும் நம் நாட்டு மாடுகளும் ஏட்டுச் சுரைக்காய் ஆகிடுமோ

"சோழநாடு சோறுடைத்து" கல்லில் நீர் சுரந்தது எங்கனம் என வருங்காலம் வியந்திடுமோ ?

மருதம் பாடிய ஓரம்போகி-நின்நிலம் பாலையாய் மாறுதின்று காண்பீரோ ! செயற்கை ரசாயனங்கள்-தற்காலிக சுகம் தரும் வேசியாய் நிலமகளை கெடுத்ததும் ஏனோ ?

ருசிக்குப்பின் மறைந்திருக்கும் ஆபத்தும் சுசப்புக்குப்பின் இருக்கும் மருத்துவமும் விளைநிலம் தழைத்திடுமோ ? உணவே மருந்தென உணர்வோமோ?





एक कहानी

यह वह कहानी है, जो सुनी हम सबने है, देखा हम सबने हैं, पर समझा किसी ने नही। यह कहानी है उस बूढ़े मैदान की, जिसे जाना हम सबने हैं, पर समझा किसी ने नहीं। यह हर दिन की कहानी है जब सूरज उसे जगाता था, अपनी सुनहरी करिणों से उसके टीलों को भिगोता था। हरी हरी घास और पत्तों को एक नयी ऊर्जा देता था, चारों ओर पहाड़ियों और मंद-मंद बहती अनिल उसे हर शाम छू जाती थी। उसके घर पर लेट कर दोस्त अपने मुहमो का पर्दा खोलते थे, और वो चुपके से उनकी कहानियाँ जकड़ लेता था। दुनिया उस पर चलती, पर वह दुनिया से दोस्ती करता। खेलकूद, बाते, राज, सूरज और अनिल, उसे इनकी यारियाँ पसंद थी। पर रात को यह कहानी बदल जाती थी, अब सूरज नहीं, बच्चे नहीं, हवा नहीं और दुनिया नहीं। सागर से भी गहरी थी उसकी तनहाई, शायद इसीलिए चाँद तारे उस पर हँस रहे थे, जीवन व्यर्थ था ।



या रास्ता ही ना रहे

आँखे खोलकर जगमगाए चलना तो अभी बहुत है सामने एक घुमावधार पथ, उसके वक्र अपने मुसाफिरों की गाथाएं गाती थी। रास्ता ज्यादा पक्का ना था,

झट से पैर सुन्न हो उठे उंगलियाँ नरम और ठंडी नसों का खून जम गया था धड़कन तेज और सांसे घुट रही थी। हवा की सनसनाहट बढ़ रही थी, पैर आगे को नहीं उठते। क्या यह मन डर रहा है? उमङ्कर एक बदलाव आया सन्नाटे में एक रुदन जैसे कोई मां अपने बेटे की चिता सजा रही हो जैसे कोई जवान अपनी अंतिम साँस ले रहा हो। गरदनों पर रस्सी के कसने की आवाज, नसों को काटती चाकू की आवाज प्रशासनिक कुर्सियों के नीचे झनझनाहट यह आवाजे जैसे भ्रमर हो अब हाथ न कॉपते थे. धङ्कन और भी तेज मन किया कि जला दुँ, पथ के दोनों ओर जल जाए ये आवाजे. या रास्ता ही ना रहे





VISHNU PRIYA
Science (Physics)
First Year

जनसंख्या

दुनिया की जनसंख्या हो सात अरब, मुझे लगती सात सौ अरब है, हर व्यक्ति के चेहरे पर लगे मुखीटे देखकर, होती हैरत अजब है। हर शख्स के सामने आते है कई रूप, जब सामने आती है मुसीबतों की कड़ी धूप। संतों के चहरों में जगत देखता है भगवान, पर उन्ही के गुनाहों से पनपते हैं इस संसार में कई शैतान।
सच के साथ खड़े होकर जिन्हें करनी थी उसकी हिफाज़त,
वहीं संपादक कर रहे हैं न्यायालयों में झूठ की वकालत।
देर - सवेर बढ़ती जनसंख्या पर तो,
काबू लग भी जाएगा,
किन्तु चहरों पर मुखौटा पहने,
व्यक्तियों पर भला लगाम कौन लगायेगा।
जनसँख्या के नियंत्रण के साथ हो नियंत्रण बढ़ते मुखौटों पर,
हो नियंत्रण झुठे प्यार पर,
और हो बढ़ते द्वेष पर।

स्वदेश

एक दिन ऐसा आया था, जब मै खेल रहा था सब लोग टीवी देख रहे थे और सरकारी लोग कुछ बोल रहे थे, कह रहे थे अब भरनी पड़ेगी जी.एस.टी, सुन कर लग रहा था फिरसे कुछ होगा मोदी -एस.टी.आई,



SAKSHAM SHARMA CSE Second Year

अब कमी लगने लगी पैसो की, चलो देश के लिए इतना तो करते है, भारत को स्वदेशी भाव से भरपूर करते है.



हम सब एक हैं।

जब से हम मनुष्यों ने इस विशाल धरती को अपना घर बनाया है उस समय से ही लड़ाई एवं मन
-मुटाव का सिलिसला जारी है। भगवान ने तो हम सभी को एक प्रकार का ही बनाया है। सभी की
रगों में दौड़ता खून लाल रंग का ही है। फिर क्यों हम सभी ने अपने आप को धर्म, जाती, भाषा के
आधार पर बाँट लिया है। भेदभाव व मनमुटाव से उत्पन्न होने वाली अनेक घटनाओं में से एक है
सिदयों से चल रहे भारत-पाक झगड़े की। किसी का कोई फायदा नहीं हुआ इन झगड़ों से।
हुआ तो यह की कई परिवार बिखर गए। कुछ लोगों ने जो खोया वो उनके पास कभी नहीं लौटेगा।
आमजनों के लिए जीवन कठिन हो गया।

आखिर क्यों लड़ रहे हैं हम ? कहने को तो हम कहते हैं -"हिन्दू ,मुस्लिम, सिख, ईसाई आपस में है भाई-भाई "।

पर यह वाक्य मात्र एक कथन बनकर रह गया है। कोई इसका पालन नही करना चाहता। देशों के मध्य तो ठीक है, परन्तु हम लोगों ने अपने आप को भारत के भीतर ही सीमाओं में कैद कर रखा है। हमने अपने ही देश वासिओं को पराया कर दिया है। अगर इसी प्रकार से सारी स्थितियां रहीं, तो वह दिन दूर नहीं जब पूरा विश्व एक युद्ध भूमि बनकर रह जायेगा और हम कुछ नहीं कर पायेंगे।

युद्ध तथा लड़ाई किसी भी परेशानी का समाधान नहीं है। याद रहे की महाभारत में भी श्रीकृष्ण ने अनेक प्रयास किये युद्ध को टालने के, अधर्म को धर्म से पराजित करने के। गाँधीजी ने भी अहिंसा का ही साथ दिया। तो फिर आज हम क्यों लड़ रहे है?

परेशानियाँ एवं मनमुटाव बैठकर ,बातचीत से भी सुलझाए जा सकते है। एक दूसरे के धर्म तथा संस्कृति को समझकर उनका आदर करके उन्हें अपनाया जा सकता है। ध्यान रहे की हम सभी का निर्माता एक ही है और हम सभी एक है। अगर "वसुधैव कुटुम्बकम्" का सही रूप से पालन किया जाये तो इस भूमि को देवभूमी में परिवर्तित होने में समय नहीं लगेगा।





जौहर

देश की ताजा ख़बर, देश की ताजा खबर.... यह कहते हुए जब अखबारवाले लड़के ने पेपर को फेका तो इस बात का अंदाजा भी नहीं लगाया जा सकता था कि एक फिल्म एक इंकलाब का कारण बन सकती है। जब स्वर्ग का सपलीमेंट आया तो पद्मावती एक पल को ठिठुक गयी.... फिर मन ही मन मुस्करायी। " सदियाँ ही सही पर मेरी कहानी इक्कीसवी सदी की ट्विटर ने सुनी तो सही।" अपनी वीरंगता की प्रशंसा सुनने के लिए उसने धरती पर जाने का फैसला कर लिया, पर प्रभु ने अकस्मात् एक शर्त रख दी की उन्हें रात के पहले पहर ही वापस आना होगा।शर्त फ़ौरन मानते हुए वो मानवीय रूप में परिवर्तित हो गयी।

माँ माँ उठो ना... इस आवाज से वो उठी तो उसने अपने आपको चारो तरफ से एक वसतु से घिरा हुआ पाया। आवाज़ की ओर ध्यान आकर्षित हुआ तो उसने एक 8 साल के बच्चे को उससे पूछता हुआ पाया, " माँ, जल्दी करो, वरना फिर स्कूल के लिए देरी हो जायेगी। उसके मन के कइ द्वारों को खोलती हुई एक आवाज ने उसे चेताया, " तुम इस बालक की माँ हो, अपने बच्चे की बात सुनो।" उसने अपने सम्मुख एक गोलाकार चरखे को पाया, ठीक वैसा जैसा खिलजी ने उनके बुलंद दरवाज़ो पर फेंका था। पर उसने अपने आप ही उस वस्तु को चलाना शुरू किया जैसे वो सालों से इस कला को जानती हो। अपने गौरव को उसके स्कूल छोड़ा और गाड़ी दूसरे रसते की ओर मोड़ दी। जगह, जगह पर उसके नाम के पोसटर सुसज्जति थे। उसे विचार आया की क्यों न अपने लिए लड़ी जा रही लड़ाई में उसका भी कुछ योगदान हो। सदियो बाद पद्मावती के पैर धरती पर पड़े। एक विशालकाये पंडाल के नीचे एक वृद्ध व्यक्ति ऊँचे स्वर में भाषण दे रहे थे - " रानी पद्मावती हमारी माँ सा है। उनका सम्मान हमारा सम्मान है।" तभी उसका ध्यान पीछे कुछ स्वरो पर गया, " यार, दीपिका ही पद्मावती के रूप में इतनी सुन्दर है तो स्वयं पद्मावती क्या दिखती होगी।" झुंझलाते हुए उसने अपना ध्यान उस बेशरमी से भरे खिलखिलाहट से हटाया ही था कि उसे अपने ऊपर किसी का स्पर्श महसूस हुआ। पीछे मुड़ कर देखा तो उसने एक अधेड़ उम्र के आदमी को उसकी तरफ लीचड़ नज़रों से देखते हुए पाया। जब उसने हो-हल्ला मचाया तो भीड़ में से एक सज्जन बोल पड़े, " मैडम, ऐसे कपड़ो में तो कोई भी छेड़ देगा।" पेसिल स्कर्ट पहनी पद्मावती आज भी हारकर अपने आत्मसम्मान का जौहर कर आई थी।

Varsha Nair

उड़ान

"उसने अपने जीवन में उड़ान भरी" - यह वाक्य उन लोगों के लिए इस्तेमाल करते हैं जो अपने जीवन में अपनी प्रतिभा से सफलता पाते हैं।

इस वाक्य को समझने के लिए एक कहानी देखते है :-

एक छोटे से गाँव में एक लड़का था। उसका नाम श्याम था। वह अपने पिताजी के साथ रहता था। उसके पिताजी कुम्हार थे। वह लड़का अभी केवल दस वर्ष का था, परंतु चित्रकारी में श्रेष्ठ था। वह अपने घर की दीवारों पर ही अपनी कला के रंग बिखेरता था। उसकी कला को निखरती हुई एक बात यह भी थी की वो केवल प्राकृतिक रंगों का ही उपयोग करता था।

दोनो बाप बेटे मिल कर जिन्दगी का गुजर - बसर कर रहे थे। पर कुछ समय पट्टात ही उसके पिताजी का स्वास्थ अचानक से बिगड़ गया। उनका काम पूरी तरह से बंद हो गया। अब श्याम को ही कुम्हार बनना पड़ा। परंतु वह ये कार्य ठीक तरह से नहीं कर पा रहा था। इसी कारण वह उदास रहने लगा। परंतु उसके पिताजी ने उसका हौसला बढ़ाते हुए कहा - "प्रयत्न में वो ताकत है बेटा, जो तुम्हारी होसलों की उड़ान के आगे आसमान को भी झुकने पर मजबूर कर देगी।"

इसके बाद तो वह और परिश्रम करता रहा और अंततः उसे सफलता प्राप्त हुई। कुछ समय पश्चात उसे एहसास हुआ की वह अपनी चित्रकारी मिट्टी के बरतनों पर भी कर सकता है। तो फिर वह ये कार्य करने लगा इसी में उसके कई साल व्यतीत हो गए। वह अत्यंत सफल कलाकार बन गया। वह पिताजी का इलाज करवा पाया तथा एक नया घर भी बना पाया। उसके गाँव में एक हवेली थी जिसका पौराणिक महत्त्व था। देश-विदेश के लोग उसे देखने आते थे। उन्हीं में से कई लोगों ने श्याम की चित्रकारी देखी। उन्हें श्याम की चित्रकारी अत्यन्त पसंद आयी अतः उन्होंने श्याम को विदेश आकर उसकी चित्रकारी के नमूने दिखाने का आमंत्रण दिया।

विदेश जाकर श्याम के चित्र अधिक दामों में बिकने लगे। परिणाम स्वरूप उसके हालात बदल गए और उसके गाँव के अन्य चित्रकारों को भी अपनी कला दिखाने का मौका मिला।

श्याम को संबोधित करते हुए अखबारों में लिखा गया :-"उड़ने में बुराई नहीं है, आप भी उड़े,

लेकिन उतना ही,जहाँ से जमीन साफ दिखाई देती हो,तभी आप सब श्याम की तरह सफल बन सकेंगे।"सफलता चलकर नहीं आती, हमें उस तक पहुँचना पड़ता है। ठीक उसी प्रकार जैसे भगवान ने हर पंछीं के लिए भोजन तो दिया है, परंतु उसके घोसले में नहीं।





വസന്തകാലത്തിന്

കാലേ വിളങ്ങുന്നൊരാദിതൃശോഭക്കും കൂളിരിന്നുമൊപ്പത്തിലെത്തും വസന്തത്തി– നാകവേ, പൂക്കളാൽ, ചന്ദ്രകാന്തത്തിനാൽ മംഗളം, സ്വാഗതം നൽകി ഭൂമി.

മഴ പോലെ പെയ്തിടും കർക്കടക്കണ്ണീർ വസന്തമേ നിൻ കൈ തുടച്ചിടുന്നു. കാർമുകിൽ നീങ്ങീടും വാനത്തിൻ പൂമു– ത്താർദ്രമായ് സുരൃൻ ചിരിച്ചിടുന്നു പൂക്കൾ ചിരിക്കാൻ മടിക്കുന്ന വള്ളികള– ത്രയും പൂമാല കോർത്തിടുന്നു.

സന്ധ്യയിൽ ഭുമി തൻ കുരിരുൾ നീക്കുവാൻ അരുണൻ തൻ രക്തം പൊഴിച്ചീടവേ. ആകെയും പുഷ്പിച്ചു വല്ലി, തൻ പുഷ്പങ്ങൾ, നന്ദിയായ് പാദത്തിൽ ചേർത്തിടുന്നു. പാൽ പോലെ തൂകിടും പാൽനിലാവിന്നൊളി പാരാകെ പാരാതെ പാറിടുന്നു. വിറയാർന്ന കൈകളാൽ സുര്യകാന്തി, തന്റെ പറയാത്ത പ്രണയത്താൽ കുമ്പിടുന്നു. സൂര്യ, നീ ഭൂമി തൻ സ്വന്തം. ഞാനജ്ഞാനി, നഷ്ടപ്രണയ ഗീതങ്ങൾ എനിക്കുസ്വന്തം.

> മനതാരിൽ സ്നേഹത്തിൻ കുളിരേകി, ന•തൻ, തണലേകി ഒരുപതി ഭൂമിയിൽ വാഴവേ നന്ദിയായ് പൂക്കാൻ മറക്കാം വസന്തത്തി– നാർദ്രമായ് ചൊല്ലിടാം നന്ദിഗീതം.



അമ്മേ നിനക്കായ്.....

ഭാരതമേ നീ പെറ്റിട്ട പുത്രൻ ഞാൻ, നിൻ മാറിലെ പാൽ കുടിച്ചു വളർന്ന പൈതൽ, എന്റെ പെറ്റമ്മയെപ്പോലെ, പിറന്നമണ്ണിനേയും സ്നേഹിച്ചുഞാൻ, നിൻ മുലപ്പാൽ ഒഴുകിയ നീരുറവകളെല്ലാം വറ്റിവരില്ലേഹ്ല. നിന്റെ മേൽ പലനില കെട്ടിടങ്ങൾ പണിതു, നിന്നെ വീർപ്പുമുട്ടിച്ചില്ലേഹ്ല അമ്മേ മാപ്പ്ഹ

ഹിന്ദുവും കൃസ്ത്യാനിയും മുസ്സീമുമായി ഞങ്ങൾ വേർതിരിഞ്ഞ്– തല്ലു കൂടിയപ്പോൾ, നൊന്തത് നിന്റെ ഹൃദയം മാത്രംഹ്ല പണക്കാരനും പാവപ്പെട്ടവനുമായി ലോകം ഞങ്ങളെ വേർതിരിച്ചപ്പോൾ, കണ്ണുനീർ ഒഴുക്കിയതും നീ മാത്രം, അമ്മേ മാപ്പ്ഹ്ല

നിന്റെ ചോരകുടിച്ച് നിന്നെ തകർക്കുന്ന മക്കളായി, ചില രാഷ്ട്രീയക്കാരും തീവ്രവാദികളും അവരോടു പൊറുക്കാനും നിനക്കു മാത്രമേ– കഴിഞ്ഞുള്ളൂഹ്ല ഇല്ല അമ്മേഹ ഇനി നിന്നെ നശിപ്പിക്കാൻ ഞങ്ങൾ ആരേയും അനുവദിക്കില്ല. ഇനി ഞങ്ങൾ വേർതിരിയില്ല. പണത്തിന്റേയും ജാതിയുടേയും എല്ലാ വൃത്യാസങ്ങളും മറന്ന്, ഞങ്ങൾ കൈകോർത്തുപിടിച്ച് നിന്റെ നക്കായ് പ്രവർത്തിക്കും, ശാന്തിയുടേയും സമാധാനത്തിന്റേയും പ്രതീകമായി ഈ ലോകത്തിനു മുന്നിൽ നിലകൊള്ളും, ഒരു നവ ഇന്ത്യക്കായിഹ്ല നയുടെ ഈ ചെറുനാളം ലോകം മുഴുവൻ പ്രകാശിക്കുംഹ്ല ഇതാണ് എന്റെ സാപ്നത്തിലെ ഇന്ത്യ ഇതായിരിക്കട്ടെ നമ്മുടെ ഇന്ത്യഹൃ.

SREE PARVATHY
Integrated Maths
Fourth Year

സിറിയ എന്ന യുദ്ധഭൂമി

ചരൽ നിറഞ്ഞ വഴികൾ, ഭയഭീതിയോടെ എവിടേക്കെന്ന് അറിയാതെ ഓടുന്ന ജനങ്ങൾ, തന്റെ തെറ്റു മനസ്സിലാവാതെ ചോര ക്കറയുമായി നീൽക്കുന്ന പിഞ്ചുകുഞ്ഞുങ്ങൾ.സിറിയ എന്ന വാക്കു കേൾക്കുമ്പോൾ നമ്മളിൽ പലരുടേയും മനസ്സിലേക്ക് ഓടിയെത്തുന്ന ദൃശ്യങ്ങളാണ് ഇത്. വലിയൊരു ചരിത്ര പാരമ്പര്യം പേറുന്ന രാജ്യമാ യി സിറിയയെ ആരുംതന്നെ ഇന്ന് ഓർക്കുന്നില്ല. ബാസ്സർ-അൽ-അസ്സദ് എന്ന ഏകാധിപധിക്കെതിരെ 2011 ലെ അറബ് വസന്തകാ ലത്ത് പൊട്ടിപ്പുറപ്പെട്ട വിപ്ലവമാണ് ഇന്ന് അമേരിക്ക, റഷ്യ പോലുള്ള ലോകരാജൃങ്ങൾ ഇടപെട്ട് ഒരു ആഭ്യന്തര കലാപം തന്നെ ആക്കിയത്. ആ ആഭ്യന്തര കലാപത്തിന് ഇന്ന് ഏഴു വർഷം തികയാറായി. കലാപം രൂക്ഷമായ കാലത്തു തന്നെയാണ് അവിടെ ഐസിസ് കൂടുതൽ ശക്തമാകുന്നത്. അവർ പിന്ന അസദിന്റെ സൈന്യത്തോട് നേരിട്ട് തന്നെ ഏറ്റുമുട്ടി. പക്ഷേ ഇതിനിടയിൽ കുരുങ്ങിയത് പാവപ്പെട്ട സാധാരണക്കാരായ ജനങ്ങൾ ആയിരുന്നു. അലേതുഹ, റക്ക, എന്നീ മഹാനഗരങ്ങൾ ഈ അടുത്ത കാലം വരെ ഐസിസ് തീവ്രവാദികളുടെ കൈയ്യിലായിരുന്നു. അസദിന്റെ സൈന്യം ലോകരാജ്യങ്ങളുടെ പിന്തുണയോടെ ഈ നഗരങ്ങൾ തിരിച്ചെടുത്തു എങ്കിലും ഇന്ന് അവിടെ ഒന്നും തന്നെ ബാക്കിയില്ല. ഇടിഞ്ഞുവീണ കെട്ടിടങ്ങളും മറക്കാനാകാത്ത വേദനിപ്പിക്കുന്ന ഓർമ്മകളുമല്ലാതെ മറ്റൊന്നും ബാക്കിയില്ലാത്ത സിറിയയിലെ കുട്ടി കളുടെ യാതനയാണ് നമ്മൾ കില്ലെന്ന് നടിക്കുന്നത്. അജ്മൽ കുർദി എന്ന മൂന്നു വയസ്സുകാരന്റെ ചേതനയറ്റ ശരീരത്തിന്റെ ദൃശ്യങ്ങൾ ഇന്നും ഒരു വേദനയോടെയല്ലാതെ നമുക്ക് ഓർക്കാൻ കഴിയില്ല. ആ മരണം കഴിഞ്ഞ രു വർഷം പിന്നിട്ടിരിക്കുന്നു. എന്നാൽ ഇന്നും സിറിയയിലെ കൂട്ടികൾ കാൽപ്പന്ത് കളിക്കുകയും സമാധാന മായി കൂട്ടുകാരുമൊത്ത് വിദ്യാല യത്തിൽ പോവുകയും ചെയ്യുന്നതിനു പകരം തന്റെ ജീവനുവേി അഭയം തേടുകയാ ണ്.

പടുകൂറ്റൻ കെട്ടിടങ്ങളിൽ എല്ലാം കിട്ടും മൗനം പാലിക്കുന്ന ശക്തരായ നേതാക്കൾ ഓർക്കേത് പലതുമു്. ഒരു യുദ്ധം അത് തകർക്കുന്നത് കെട്ടിടങ്ങൾ മാത്രമല്ല ഒരു രാജ്യ ത്തിന്റെ അടിത്തറയെ തന്നെയാണ്. വൻകിട രാജ്യങ്ങൾ അവരുടെ സുരക്ഷാ വലയത്തിൽ ഇരുന്ന് യുദ്ധകാഹളം മുഴക്കുമ്പോഴും, അഭയാർത്ഥികൾക്കു മുമ്പിൽ വാതിൽ കൊട്ടി അടക്കുമ്പോഴും, ഏറ്റവും യാതനയും പീഡനവും അനുഭവിക്കുന്നത് സാധാരണ പൗരാരാണ്. ആ യുദ്ധം ഒരു മാരകമായ അർബുദംപോലെ വഴിയിലുള്ള എല്ലാത്തിലേക്കും തന്നെ പടർന്നു പിടിക്കും. പന്നൊ ആരോ പറഞ്ഞതുപോലെ പണക്കാരനും പോരാളികൾക്കും മാത്രമുള്ളതല്ല ഈ ലോകം അത് സാധാരണക്കാരനും അവകാശപ്പെട്ടതാണ്. ലോകത്തിന്റെ സമാധാനത്തിനായി, ഒരു നല്ല നാളേക്കുവേി നമുക്ക് സമാധാനത്തിന്റെ സദ്ദേശവാഹകരാകാം.

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ഹ്ല ിയുദ്ധത്തിനെതിരെ...



സ്നേഹത്തിൻ കിളിവാതിൽ മെല്ലെത്തുറന്നു ഞാൻ ഇഷ്ടമാണേറെയെന്നറിയിച്ചു ഞാൻ, മിഴി ചിമ്മിയണയുന്ന മെഴുതിരിവെട്ടത്തിൽ ഒരു വേള അറിയാതിരുന്നുപോയി

> നിൻ പവിഴാധരങ്ങളിന്നെൻ കപോലങ്ങളിൽ അറിയാതെ തത്തിക്കളിച്ചനേരം, എപ്പൊഴോ ആശിച്ചൊരത്തറിൻ ഗന്ധമി– തെന്റെതായ് മാറിയ നേരമാവാം

അറിയാതെ പെയ്യുന്ന വേനൽമഴ പോൽ നിൻ നിനയാത്ത നേരത്തെ കരലാളനം, എൻ ഹൃദയത്തിനുള്ളിലൊരു കോണിതിൽ, എന്തോ ഒരുൾക്കിടിലമായ് ഭവിച്ചതാകാം

> മധുരമാം പുഞ്ചിരി നീ പകർന്നപ്പോൾ ഞാൻ എന്നോ പറഞ്ഞതിലുറച്ചുപോയി ഉലകിലൊരു സ്വർഗ്ഗമിന്നുങ്കിൽ നിന്നൊപ്പം മാത്രമെന്നങ്ങു നിനച്ചുപോയി.

ഇന്നു ഞാനറിയുന്നു, അന്നു ഞാൻ തേടിയ മന്ദാരപുഷ്പമിന്നെന്റെയെന്ന്, വിന്നു മധു പോലെ,പിരിയുവാനാവാതെ നെഞ്ചോട് ചേർന്നതായ് തീർന്നുവെന്ന്

> SIDHARDHAN .S Mass Communication Second Year

വസന്തകാലത്ത്

'അന്നൊരു വസന്തകാലത്തിലെ സുഗന്ധപൂരിതമായ സൂര്യാ സ്തമയത്തിലായ ിരുന്നു എന്റെയും മോഹങ്ങൾ പൂവണിഞ്ഞത്.'

ജീവിതത്തിന്റെ കയ്പ്പേറിയ നിമിഷങ്ങളെ ഇല്ലാതാക്കുക ചില നറു മണമുള്ള നിമിഷങ്ങളെ ജീവിതം നമൂക്കു സമ്മാനിക്കുമ്പോഴാണ്.

ഞാനും അവനും ചെറുപ്പം മുതൽക്കേ അടുത്ത സുഹൃത്തു ക്കളായിരുന്നു. ചിലപ്പോൾ തല്ലു കൂടുകയും, ചിലപ്പോൾ ഒരുമിച്ച് അടുത്ത വീട്ടിലെ സുധാകരൻ ചേട്ടന്റെ പറമ്പിൽ കയറി ആരും അറിയാതെ എനിക്ക് മാധുരും നിറഞ്ഞ ചാമ്പങ്ങ പറിച്ചുകൊ് തരുമ്പോൾ, അതിന്റെ മാധുരുത്തെകാട്ടിലും മധുരം നിറഞ്ഞത് എന്നും അവൻ കുടെയുന്നെ ധൈരുവും വിശ്വാസവുമായിരുന്നു. അത് പിന്നീടെ പ്പോഴാണ് ഞങ്ങളെ വിട്ടുപിരിയാതിരിക്കാൻ തക്കവണ്ണം അടുപ്പിച്ച് ഒന്നാക്കി മാറ്റി യത് എന്ന് അറിഞ്ഞിരുന്നില്ല. എന്നാൽ അതിനുശേഷം ഞാൻ അറിഞ്ഞു, പുഴുവിനെപ്പോലും പൂമ്പാറ്റയാക്കുന്ന ദിവ്യാനുഭുതിയായ പ്രണയത്തിന്റെ അടിമകളായി

ഞങ്ങൾ മാറി കഴിഞ്ഞിരുന്നു എന്ന്.

പിന്നീട് കാലം പോയത് വളരെ വേഗത്തിൽ ആണെ ങ്കിലും അവനോടൊപ്പമുള്ള ഓരോ നിമിഷവും എനിക്ക് എന്നും പ്രിയപ്പെട്ടതായിരുന്നു. കൗമാരത്തിന്റെ വാത ിൽപ്പടിയിൽ നിൽക്കുമ്പോഴും എന്നിലെ കുട്ടിത്തം ഇനിയും നഷ്ടപ്പെട്ടി രുന്നില്ല. ഓടിക്കളിച്ചും, കണ്ണാരം പൊത്തിയും അങ്ങനെയ ങ്ങനെ പിന്നീട് അമ്മയുടെ ഇട യ്ക്കിടെയുള്ള ഓർമ്മപ്പെടുത്തലു കളാണ് എന്നിൽ ആ ബോധം ഉണർത്തിയത്. 'സുമ, കെട്ടിച്ചു വിടാൻ സമയമായി എന്നിട്ടും പെണ്ണിന്റെ കുട്ടിത്തരം മാറിയിട്ടി ല്ല. ഇപ്പോഴും കൊച്ചു കുട്ടിയാണെന്നാണ് വിചാരം'. എങ്കിലും എന്റെ മുഖത്തെ കള്ളത്തരം കാണുമ്പോൾ അമ്മയുടെ മുഖത്തു വിടരുന്ന ആ ചിരി കാണാൻ ഞാൻ ഇപ്പോൾ കൊതിക്കാറു്

കാലം ഏറെ കഴിഞ്ഞു. എന്റെ ജീവിതത്തിൽ പ്രതീക്ഷിക്കാത്തതെ ന്തൊക്കെയോ നടന്നുകഴിഞ്ഞിരുന്നു. ഇന്നും എന്റെ കയ്പേറിയ ജീവിതത്തിന്റെ പൊട്ടിച്ചിതറ ിക്കിടക്കുന്ന വളപ്പൊട്ടുകൾ എന്റെ കാലിൽ അറിയാതെ കുത്തിക്കയറുകയാണ്.

പെട്ടന്നാണ് ക്ലാസ് മുറിയിലെ ഒരു കൊച്ചു പയ്യൻ വന്ന് എന്നെ തട്ടിവിളിച്ചത്. " ടീച്ചറെ, ടീച്ചറെ, സൂര്യ എന്നെ തല്ലി"എന്നു പറഞ്ഞത്. ഊട്ടിയിലെ ആ കൊടും

യത് എന്നും എന്റെ അമ്മിണിയമ്മയായിരുന്നു. "മോളേ സുമേ, നിന്റെ ഈ ത്യാ ഗത്തിന് ദൈവം നിനക്ക് സന്തോഷിക്കാൻ ഉറപ്പായും ഒരു ഫലമുാക്കും". വൈകുന്നേരത്ത് കടുപ്പത്തിലുള്ള ഒരു ചായയുടെ ആവിയിൽ എന്റെ കണ്ണാടിയിൽ പതിഞ്ഞ മൂടൽ എന്നെ പഴയകാലത്തേക്ക് തള്ളിയിട്ടു. എന്റെ അച്ഛനും എന്റെ കളിക്കൂട്ടുകാരനായ ചന്തുവിന്റെ അച്ഛനും നല്ല സുഹൃത്തുക്കളാ യിരുന്നു. ചന്തുവിനെക്കുറിച്ച് ആലോചിക്കുമ്പോൾ എന്റെ കവിളി ലെ ചുകച ുകപ്പും ചുിലെ മന്ദഹാസവും അമ്മിണിയ മ്മയ്ക്ക് എന്നും ഇഷ്ടമായിരുന്നു. അമ്മിണിയമ്മയുടെ പ്രാർത്ഥനകളിൽ എപ്പോഴും അവരെ തനിച്ചാക്കി വിദേശത്തേക്ക് ചേക്കേറിയ മക്കളേക്കുറിച്ചു ള്ളതിനേ ക്കാട്ടിലും എന്നോടുള്ള സ്നേഹവും നല്ലതു വരണം എന്ന ചിന്തയും ആയിരുന്നു. അന്നൊരു വസന്തകാ ലത്തിന്റെ അവസാനത്തിലാണ് എന്റെ മോഹങ്ങളും സാപ്നങ്ങളും പുവറ്റു വീണത്. അച്ഛനും വാസുമാമയും അതായത് ചന്തുവിന്റെ അച്ഛനും കൂടി തുടങ്ങിയ ചിട്ടി പൊളിയുകയും കടം കയറി നിവർത്തിയില്ലാതെ ചന്തുവും കുടു ംബവും നാടുവിട്ടുപോവുകയും ചെയ്തത് നിറകണ്ണുകളോടു കൂടി ചന്തു എനിക്കെഴുതിയ കത്തിൽ നിന്നാണ് എന്റെ കുടുംബം മനസ്സിലാക്കിയത്. "സുമ അറിയുവാൻ, പൂവിട്ടുതുടങ്ങിയപ്പോഴേക്കും ഇതൾ കൊഴിഞ്ഞു പോവുകയാണ്. എനിക്കൊരിക്കലും തന്നെ മറക്കുവാൻ സാധിക്കില്ല. നിവർത്തിയില്ലാതെ അച്ഛൻ നാടു വിടുകയാണ്. ഇതിൽ അച്ഛൻ അമ്മക്ക് കൊടുക്കാൻ വച്ച കുറച്ചു പണമു്. അത് നൽകണം. അച്ഛന്റെ കുടെ ഞാനും പോകുകയാണ്. അച്ഛന് ഒരു താങ്ങായി ഞാനും കൂടെ വേണം. ഒരിക്കലും ഞാൻ നിന്നെ മറക്കുകയില്ല. മറക്കരുത്, കാത്തിരിക്കണം. ഞാൻ വരും എന്റെ കളിക്കൂട്ടുകാരി ക്കുവേി." അച്ഛൻ നാട്ടൂകാരുടെ വാക്കുകളും ഭീഷണിയും പേടിച്ച് സ്വയം ജീവനൊടുക്കി. അന്നു മുതൽ എന്റെ വസന്തകാലം നനഞ്ഞു കൊഴി ഞ്ഞുനിൽക്കുന്ന പുവായി മാറാൻ തുടങ്ങി. ജീവിതം എന്നെ കുറെ പരീക്ഷിച്ചു. വേദനകളും ബുദ്ധിമുട്ടുകളും കുടുംബ ഭാരവും എന്നെ തോൽപ്പിക്കാൻ ശ്രമിച്ചെങ്കിലും പരാജയപ്പെട്ടു." സുമേ, ഇങ്ങോട്ടു വായോ വസന്ത കാലത്ത് വിരിഞ്ഞുനിൽക്കുന്ന പൂക്കളുടെ ഭംഗി ഒന്നു നോക്കൂ." അമ്മിണിയമ്മ എന്നെ തിരിച്ചു കൊുവന്നു. ചായ ആറിത്തണുത്തു. തിരിഞ്ഞു നടക്കുമ്പോഴാണ് പെട്ടെന്ന് ഒരു കൊട്ട് വാതിലിൽ, തുറന്നു നോക്കി യപ്പോൾ വസന്തം. അമ്മിണിയമ്മ ആരാ എന്ന് ചോദിച്ചു വന്നപ്പോഴാണ് സുമയ ുടെ മുഖത്തെ ആ വസന്തകാ ലത്തെ ദർശിച്ചത്. പുവുകൾ വിരിഞ്ഞു. റോസ ാപ്പുവിന്റെ ചുവപ്പുനിറം മുഖം ആകെ നിറഞ്ഞു നിന്നു. ചുിൽ മുല്ലമൊട്ടിന്റെ സൗരഭ്യം നിറഞ്ഞ മന്ദഹാസം കണ്ണുകളിൽ തിളക്കം "അമ്മിണിയമ്മേ ഇതാണ്. . . "

അന്നൊരു വസന്തകാലത്തിലെ സുഗന്ധപൂരിതമായ സന്ധ്യയിലായിരുന്നു എന്റെയും മോഹങ്ങൾ പൂവണിഞ്ഞത്.

SRUTHI SURESH

[&]quot;നിന്റെ ചന്തു"

ജീവിതം

രാത്രിമഴയിൽ നനഞ്ഞു ആർദ്രയായ് ഞാൻ പടികളിറങ്ങി രാവേറെയായി, ഞാൻ തനിച്ചായി ഈ വലിയ ലോകത്തിൽ ഒരു ചെറുമഴത്തുള്ളിയായ് കാറ്റിൻ ഗതിക്കൊപ്പം ആടിയുലഞ്ഞു തോട്ടിലൂടൊഴുകി ആറിൽ പതിച്ചു. ഏകയായ് ഈ സമുദ്രത്തിലെത്തപ്പെട്ടു. തനിച്ചൊരു മൂലയിൽ അലിഞ്ഞുചേർന്നു അലകൾ അടിച്ചു കരഞ്ഞു. തിരയുവതില്ലാരുമെന്നെ, പറയാതെ പോന്നതല്ലോ കരയും എനിക്കറിയാം ആ മിഴിനീരൊഴുകി എത്താറു് പക്ഷേ തിരികെ ചെല്ലാൻ കഴിയാത്തൊരാക്കുരുക്കിൽ പെട്ടുഴറി ഒഴുകിടുന്നു അറിയാ തീരങ്ങളിലേക്ക്

SREE PARVATHY

Integrated Maths Fourth Year





B TECH - AEROSPACE ENGG 2014 - 2018 BATCH



DEPT OF AEROSPACE ENGG - FACULTY & STAFF 2017 - 18



B TECH - CIVIL ENGG 2014 - 2018 BATCH



M TECH - STRCTURAL & CONSTRUCTION ENGG 2014 - 2018 BATCH



DEPT OF CIVIL ENGG - FACULTY & STAFF 2017 - 18



B TECH - CSE 'A' 2014 - 2018 BATCH



B TECH - CSE 'B' 2014 - 2018 BATCH



B TECH - CSE 'C' 2014 - 2018 BATCH



B TECH - CSE 'D' 2014 - 2018 BATCH



B TECH - CSE 'E' 2014 - 2018 BATCH



M TECH - CSE 2016 - 2018 BATCH



DEPT OF CSE - FACULTY & STAFF 2017 - 18



M TECH - CVIP 2016 - 2018 BATCH



B TECH - ECE 'A' 2014 - 2018 BATCH



B TECH - ECE 'B' 2014 - 2018 BATCH



B TECH - ECE 'C' 2014 - 2018 BATCH



B TECH - E & | 2014 - 2018 BATCH



M TECH - VLSI DESIGN 2016 - 18 BATCH



M TECH - B ME 2016 - 2018 BATCH



M TECH - CSP 2016 - 2018 BATCH



M TECH - A E L 2016 - 2018 BATCH



DEPT OF ECE - FACULTY & STAFF 2017 - 18



B TECH - EEE 'A' 2014 - 2018 BATCH



B TECH - EEE 'B' 2014 - 2018 BATCH



M TECH - POWER ELECTRONICS 2016 - 2018 BATCH



MTECH - EBS 2016 - 2018 BATCH



MTECH - RET 2016 - 2018 BATCH



M TECH - CIN 2016 - 2018 BATCH



DEPT OF EEE - FACULTY & STAFF 2017 - 18



B TECH - MECH ENGG 'A' 2014 - 2018 BATCH



B TECH - MECH ENGG 'B' 2014 - 2018 BATCH



B TECH - MECH ENGG 'C' 2014 - 2018 BATCH 🦯



MTECH - AT E 2016 - 2018 BATCH



MTECH - M F G 2016 - 2018 BATCH



MTECH - ED N 2016 - 2018 BATCH



DEPT OF MECH - FACULTY & STAFF 2017 - 18



B TECH - CHEM ENGG & MATERIALS SCI 2014 - 2018 BATCH



M TECH - MATERIALS SCI & ENGG 2016 - 18 BATCH



DEPT OF SCIENCES - FACULTY & STAFF 2017 - 18



DEPT OF CHEM ENGG - FACULTY & STAFF 2017 - 18



INTEGRATED MSC 2013 - 18 BATCH (PHY & CHEM)



5 YEAR INTEGRATED MATHEMATICS 2015 BATCH



DEPT OF MATHEMATICS - FACULTY 8 STAFF 2017 - 18



III BA ENGLISH LANG & LIT 2015-18



II MA ENGLITERATURE & LITERARY THEORY 2013 - 18 BATCH



DEPT OF ENGLISH - FACULTY & STAFF 2017 - 18



M TECH CRN 2016 - 18 BATCH



M TECH R S W S N 2016 - 18 BATCH



DEPT OF CEN - FACULTY & STAFF 2017 - 18



M TECH - CYBER SECURITY 2016 - 18 BATCH



DEPT OF CYBER SECURITY - FACULTY & STAFF 2017 - 18



B.A. MASS COMMUNICATION 2015 - 18 BATCH



M.A. COMMUNICATION 2016 - 18 BATCH



DEPT OF COMMUNICATION - FACULTY & STAFF 2017 - 18



M.S.W 2016 - 18 BATCH



DEPT OF MSW - FACULTY & STAFF 2017 - 18



DEPT OF PHYSICAL EDUCATION 2017 - 18



CENTRAL LIBRARY 2017 - 18



DEPT OF STUDENTS WELFARE 2017 - 18



AMRITA DARSHANAM CENTRE 2017 - 18



ADMINISTRATION 2017 - 18



DEPT OF ICTS 2017 - 18



COUNCIL OF WARDENS 2017 - 18



GENERAL ADMINSTRATOR 2017 - 18



PHYSICAL EDUCATION DEPT & SPORTS CAPTAINS



DEPT OF STUDENTS' WELFARE & CULTURAL SECRETARIES



AMRITADHWANI 2017 - EDITORIAL TEAM